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SOUTHWEST FISHERIES CENTER

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PACIFIC FISHERIES INFORMATION NETWORK: DOCUMENTATION FOR CONSTRUCTION OF THE RESEARCH DATA BASE

By

Susan Jacobson and Daniel D. Huppert

ADMINISTRATIVE REPORT LJ-86-34

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May 1985
Version 2.1 -- Revised August 1986

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I. INTRODUCTION

A. Overview

The Pacific Fisheries Information Network (PacFIN) consists of two main components: a management data base and a research data base. This document describes the content and design of the research data base. It traces the computerized method of combining individual fishery data files submitted by participating member states -- California, Oregon, and Washington -- into contiguous data file sets by year. This document was written as an encompassing description for user and programmer. Thus, it contains generalized schemes complemented by specific tables outlining their exact content. We hope this method will satisfy all levels of enquiry.

For some years, California, Oregon, and Washington have been working toward coastwide coordination and consolidation of fisheries data. The resulting historical and comprehensive data base of vessels and landings information is used to track the activities and economic status of specific fishing fleets. The system was also designed to support economic monitoring, assessment, and research of West Coast commercial fisheries.

The data base was initially compiled and maintained at the National Marine Fisheries Service (NMFS), Southwest Fisheries Center, La Jolla Laboratory. Part of the reason for this was the confidential nature of California's data and rules for specific data not leaving the state. At one time, Alaska was considered a candidate for inclusion also, but strict laws protecting the confidentiality of its statistics precluded its inclusion.

Currently, each state has submitted four years of fish receipt and vessel registration data and the data have been processed for the research data base. The existing data base now contains enough years of data for investigating change over

time. This document describes the development of generalized programs for processing those years of data and the results of those programs.

B. Description of the System

The PacFIN Research Data Base is a set of computer files containing data for commercial fishing vessels landing in California, Oregon, and Washington. The files contain fish ticket data for each commercial landing of fish and vessel characteristics for each registered commercial fishing vessel in the three state area. Years included as of this writing are 1981 through 1984.

The data are obtained through a cooperative effort. Each year fish ticket and vessel registration information from the three states is submitted to NMFS. All species, gear, and port codes used by the three states are converted to a common set and the data are arranged in a predefined format. Then participating member states submit tape files of the specified fisheries data after the state agencies screen the files and check for errors.

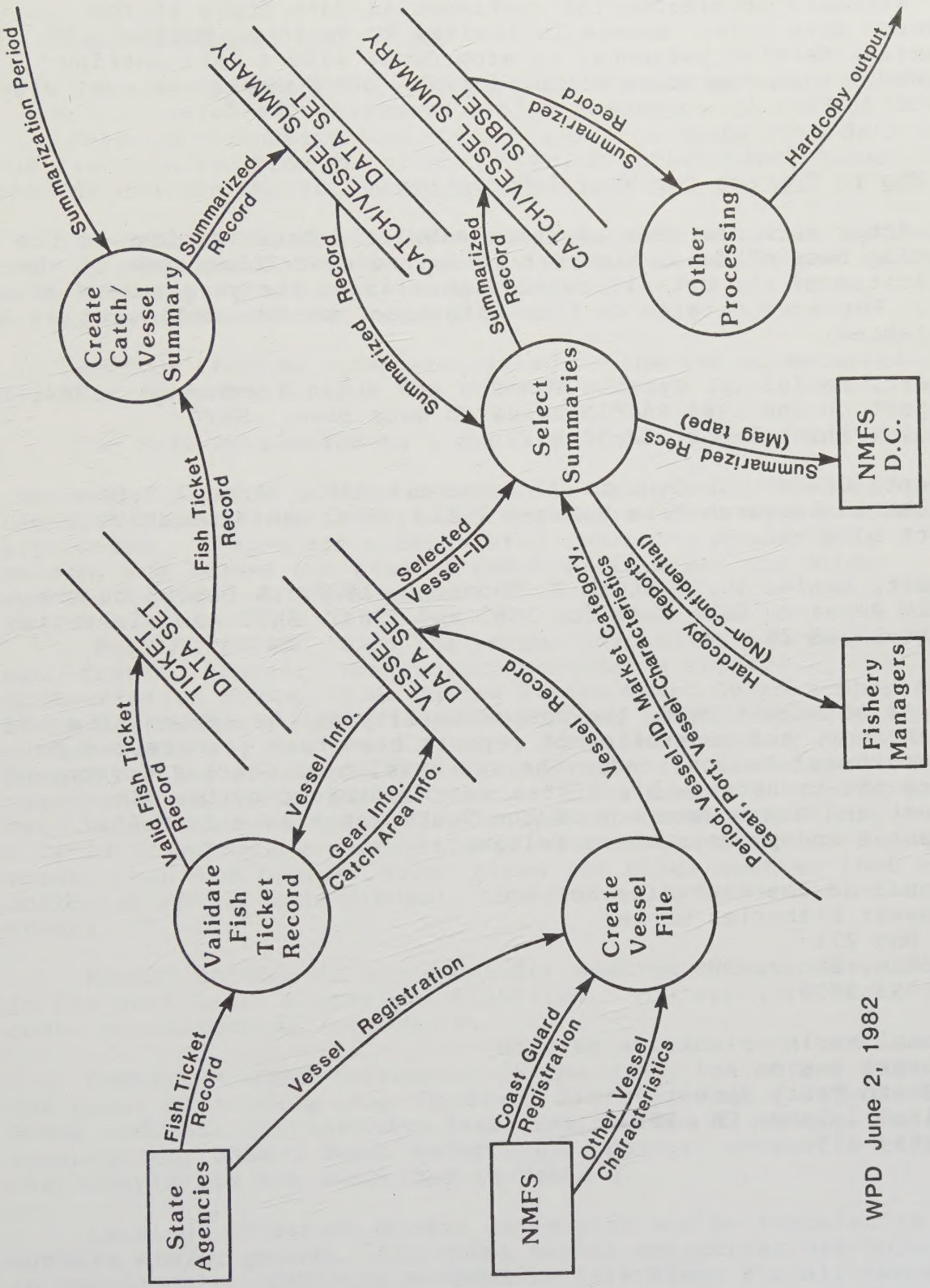
Upon receipt, the files are read onto the University of California, San Diego VAX 11/780 computer. Tests are performed to detect sort order, out of range values, and possible typographical errors. Correction processing is then attempted on an individual error basis. Any severe problems are returned to the state from which they came for correction.

After all of the detected errors have been resolved, a statistical summary for both landings and vessels is created using the Statistical Package for the Social Sciences (SPSS). Vessel characteristics are verified and supplemented with Coast Guard registration data. Then vessel IDs, which are listed on the vessel registration and on the landings files, are checked for consistency. Any landings records that do not correspond to a record in the vessel registration files are written to a separate file. A similar statistical summary is created for that data set. Also, vessels are dropped that did not land any fish for the given year.

Summary files are then created. Annual and weekly summaries contain the tons and value of landings for a vessel for each combination of species, port, and gear per time period. Raw data, intermediate files, and final summaries are written to magnetic tapes throughout all of these processes.

C. Systems Flowchart

The above steps are illustrated in the following systems flowchart. The procedures used to create the Catch/Vessel Summaries will be described in detail in terms of the steps for inputting, summing, and outputting the data.


Summarization Period
Create Catch/ Vessel Summary
Summarized Record
CATCH/VESSEL SUMMARY DATA SET
CATCH/VESSEL SUBSET
Summarized Record
Record
Other Processing
Summarized Record
Hardcopy output
Select Summaries
Summarized Recs (Mag tape)
NMFS D.C.
Hardcopy Reports (Non-confidential)
Period, Vessel-ID, Market Categ., Gear, Port, Vessel-Characteristics
Fishery Managers
Selected Vessel-ID
Fish Ticket Record
DATA SET
Valid Fish Ticket Record
Validate Fish Ticket Record
Vessel Info.
Gear Info. Catch Area Info.
VESSEL DATA SET
Vessel Record
Create Vessel File
Fish Ticket Record
State Agencies
Vessel Registration
Coast Guard Registration
NMFS
Other Vessel Characteristics
WPD June 2, 1982

D. Confidentiality

Standard provisions for confidential data apply to the research data base. Access is limited to National Marine Fisheries Service personnel in accordance with a data sharing agreement with the state of California. NMFS employees must sign a confidentiality agreement before accessing the data.

E. Who to Contact for More Information

After each new year of state-submitted data is added to the existing base of data, a report is issued describing some of the qualitites of the data items and summarizing the yearly sets of data. For more details on this data base, see the following references.

Huppert, Daniel D., Cynthia Thomson and Susan Iacometti. 1984. A Report on the 1981 PACFIN Research Data Base. SWFC Administrative Report LJ-84-03.

Huppert, Daniel D., Cynthia J. Thomson. 1985. Annual Report on the PACFIN Research Data Base -- 1982. SWFC Administrative Report LJ-85-12.

Huppert, Daniel D., Cynthia J. Thomson. 1986. A Report on the PACFIN Research Data Base for 1983 and 1984. SWFC Administrative Report LJ-86-20.

As of August 1986, the responsibility of the system, its continuance, and generation of reports have been transferred to the Southwest Region, under the supervision of Charles Korson. Before the transfer, this system was maintained by Dr. Dan Huppert and Susan Jacobson of the Southwest Fisheries Center. Addresses and phone numbers follow.

National Marine Fisheries Service
Southwest Fisheries Center
P.O. Box 271
La Jolla, CA 92038
(619)453-2820

National Marine Fisheries Service
Southwest Region
300 South Ferry Street
Terminal Island, CA 90731
(213)514-6196

II. INPUT

A. State Submitted Data Files

1. Commercial Landings (Fish Ticket Records)

Each participating state submits a file containing data from the fish tickets from commercial fishing activities. These records contain the following information:

The TICKET NUMBER is the number assigned under the system used by each state. That number is preserved in the system so each incoming record has a unique identifier. A uniform numbering system is not necessary.

PORT OF LANDING codes are listed in the set of detailed port codes in Appendix B.

The DATE OF LANDING is a numerical code for day and month.

AREA OF CATCH is a numerical code assigned by the states on the fish ticket. California and Washington data have statistical area codes. Oregon has a catch area reporting system only for salmon, and leaves the Area of Catch field blank for other species (market categories).

FISHING VESSEL ID is the unique identification number for each fishing vessel. The number is either a Federal documentation number (i.e. United States Coast Guard number or State Marine Board number) or the fishing vessel registration number issued by the State fishery management agency (i.e. Plate Number). If the Plate Number is entered here, the computer matches it with the Federal documentation number in the Vessel Data (see Section B, page 8). In special cases the ID may denote a Canadian vessel, an unregistered vessel, the absence of a vessel (e.g. for oyster, razor clams and other species that are collected rather than fished), or a generally unidentifiable vessel.

MARKET CATEGORIES are codes for species and species groups in the West Coast commercial fisheries. The assigned PacFIN codes are listed in Appendix A.

CONDITION CODES correspond to the condition of the fish at the point of landing (e.g. dressed, fillets, roe). DISPOSITION CODES indicate the intended final use for the fish (e.g. human consumption, animal food, reduction). Special codes for these characteristics are described in Table 1.

Landings of salmon market categories may be reported in numbers and/or pounds. All other market categories are reported in pounds only. CATCH IN NUMBERS is left blank for all non-salmon records and blank for salmon if the state does not have data on number of salmon landed.

The GRADE or SIZE of landed fish is reported primarily in the salmon troll and the sablefish fisheries. The size of the landed fish is indicated by the special codes listed in Table 1.

EXVESSEL PRICE is the payment per pound of fish for the quantity designated on the particular fish ticket record at the point of landing. This does not include any other payments.

GEAR CODES for each state are converted to a common PacFIN system described in Appendix C.

The record format is described in Table 1 below.

Table 1. FORMAT OF STATE-SUBMITTED LANDINGS RECORDS

Data Element	Name	Columns	Format	Description
1	Ticket No.	1- 8	A8	Number of document (e.g. fish ticket) from which data were obtained
2	Port Landed	9-13	A5	Code for port where fish were off-loaded (see Appendix B)
3	Date Landed	14-17	2I2	No. of Month in cols. 14-15 No. of day in cols. 16-17 Example: January 5 is 0105
4	Type Area	18-19	I2	00=No area recorded on ticket 01=California block area 02=Wash. statistical area 03=ADFG statistical area 04=PMFC statistical area 05=INPFC statistical area 06=ODFW Troll Salmon area
5	Catch Area	20-29	A10	Area in which catch was made
6	Vessel ID Type	30-31	I2	00=No vessel involved 11=USCG Documentation Number 12=State Marine Board Number 13=State Agency Plate Number 20=Unknown or unidentified 21=Indian tribe ID 22=Canadian Vessel 23=Illegal/unregistered vessel 24=Confiscated catch
7	Vessel ID	32-39	A8	Fishing Vessel ID Number

Data Element	Name	Columns	Format	Description
8	Market Category	40-43	A4	Code identifying species or species group (see Appendix A)
9	Condition Code	44	A1	Code indicating condition of fish at landing: R=round D=dressed H=dressed, head-off E=fish eggs (roe) F=fillets O=other U=unspecified
10	Disposition	45	A1	Code indicating intended use for fish: U=unspecified H=human food R=reduction A=animal food B=bait
11	Numbers Caught (salmon only)	46-51	I6	Numbers of salmon caught listed on fish ticket
12	Size or Grade	52	A1	Size or grade of fish as listed: X=extra small S=small M=medium L=large U=unspecified
13	Catch in Pounds	53-60	I8	Actual Landing in pounds, not round weight equivalent
14	Price	61-65	F5.2	Exvessel price per lb. in cents
15	Gear Code	66-69	A4	PACFIN Code of gear used (see Appendix C)

Additional Programming Instructions for File Format:
Left justify all alphanumeric fields (A formats)
Right justify all numeric fields (I and F formats)
Sort on ID Type + ID, then Date, then Market Category

The number of records received per state is summarized in Table 2.

Table 2. NUMBER OF LANDINGS RECORDS RECEIVED PER STATE

	California	Oregon	Washington
1981	292,772	158,990	285,881
1982	319,238	138,750	244,971
1983	232,542	116,200	215,391
1984	218,871	90,116	190,776

2. Vessel Characteristics (Registration Records)

Submissions from each state include the categories of information and data field formats described in Table 3. These variables are self-explanatory or have been covered in Table 1. Some fields are blank because the states were unable to submit all items for all vessels registered to catch fish. Missing information had to be obtained from other sources, such as the U.S. Coast Guard (USCG). If the vessel's ID was missing, however, the system could not identify its landings and that vessel was not included in the system.

Table 3. FORMAT OF STATE-SUBMITTED VESSEL RECORDS

Data Element	Name	Columns	Format	Description
1	Vessel ID Type	1- 2	I2	Type of documentation under FederalLaw: 01=USCG Documentation 02=State Marine Board Number 03=None
2	Vessel ID	3-10	A8	USCG or State Marine Board #
3	Plate Number	11-18	A8	Plate Number issued to vessel by State fishery agency
4	Type Length	19-20	I2	Type of measurement used for reporting vessel length: 01=overall lenght in feet 02=keel length in feet 03=USCG length in feet
5	Vessel length	21-23	I3	Length of vessel (feet)

Data Element	Name	Columns	Format	Description
6	Type Weight	24-25	I2	Type of measurement used for reporting weight: 01=Net weight in tons 02=Gross weight in tons
7	Weight	26-29	I4	Weight of vessel (short tons)
8	Horsepower	30-33	I4	Horsepower of main engine as reported by owner or USCG
9	Vessel Name	34-63	A30	Vessel name from State (not included in 1981 data)

Additional Programming Instructions for File Format:
Left justify all alphanumeric (A-formatted) fields
Right justify all numeric (I- and F-formatted) fields
Sort on Vessel ID Type + ID

The number of records received per state are summarized in the following table.

Table 4. NUMBER OF VESSEL RECORDS RECEIVED PER STATE

	California	Oregon	Washington
1981	15,700	4,400	18,246
1982	17,223	4,050	19,241
1983	17,223	3,700	19,976
1984	18,372	1,750	"

B. U.S. Coast Guard Documentation Information

United States Coast Guard (USCG) data in printed and computer readable form are generally available for all commercial vessels of at least five gross tons in weight. We obtained data through June 1982 directly from the Coast Guard and used them in the creation and verification of the Vessel Data Set. However, the Coast Guard no longer publishes this information, so further updating of this file is not possible. These procedures are described for historical programming and documentary purposes.

For the processing of 1981 data, two files were received from the Coast Guard. One consisted of 320-character records of vessel registrations until January 1981. The other was a subset of the first containing 64-character records. The 64-character records were used for processing the 1981 data, even though all of the data items were not fully explained.

The format and content of the 64-character records are described in Table 5.

Table 5. FORMAT OF 64-CHARACTER COAST GUARD VESSEL RECORDS

Data Element	Name	Columns	Format	Description
1	Vessel Name	1-20	A20	Left-Justified
2	Action	21-22	A2	Unknown
3	Year	23-24	I2	Unknown
4	Key	25	I1	Blank=Active 1=Encumbered 2=Lost 3=Abandoned 4=Sold Foreign 5=New Vessels 6=Redocumented
5	Hull Material	26	A1	1 or W=Wood 2 or S=Steel 3 or C=Composite 4 or I=Iron 5 or L=Alloy 6 or K=Concrete 7 or A=Aluminum 8 or F=Fiberglass 9 or P=Plastic
6	Official Number	27-32	A6	File is sorted on this #
7	Rig	33	I1	1=Steam 2=Gas 3=Oil 4=Sail
8	Tons	34-37	I4	
9	Length	38-40	I3	
10	Year Built	41-43	A3	First position assumed to be 1, e.g. 977=1977. NKN or UNK=Unknown

Data Element	Name	Columns	Format	Description
11	Horsepower	44-47	I4	
12	Previous Regions Fished	48-57		
13	Service	58-60	A3	CBL=Cable COD=Cod Fishing DRG=Dredging ELR=Elevator EXP=Oil Exploitation FER=Ferry FRB=Fire Boat FRT=Freight IBK=Ice Breaker LGT=Lightering MSC=Miscellaneous OYS=Oystering PAS=Passenger PLD=Pile Driving PLS=Pleasure PLT=Pilot Boat POL=Police Boat PTL=Patrol Boat REF=Refrigerator TNK=Tanker TOW=Towing WAT=Water Boat WHL=Whale Fishing WLD=Welding WRK=Wrecking YCT=Yachting
14	Home Port	61-64	A4	See Appendix B

For the 1982 processing, only the 320-character record file was received. This file began where the 1981 file left off and continued through June 1982. For the sake of consistency, processing was done on both of the 320-character record files to create a comprehensive 64-character record file. (The new file had a format that was different from the USCG-submitted file. This new file was used for processing the 1982, 1983, and 1984 data. The new file is explained in the next section, and new format is described in Table 8.)

The 320-character records are formatted as follows:

Table 6. FORMAT OF 320-CHARACTER COAST GUARD VESSEL RECORDS

Data Element	Name	Columns	Format	Description
1	Official Number	1- 6	I6	File is sorted on this number
2	Key	7	A1	See Table 5
3	Vessel Name	8-39	A32	Left-Justified
4	Hull Material	40	A1	See Table 5
5	Rig	41-44	A4	BRG=Barge DRG=Dredge EBCT=Electric Battery Catamaran ELB=Electric Battery ELBS=Electric Battery Submarine ELC=Electric Cable ELO=Electric Drive, Oil ELS=Electric Drive, Steam ELWO=Electric Stern Wheel, Oil GAC=Gas Cable GACT=Gas Catamaran GAH=Gas Screw Hydrofoil GAOS=Gas-Oil Screw GAP=Gas Side Wheel GAS=Gas Screw GAW=Gas Stern Wheel HBT=Houseboat JTG=Gas Water Jet JTO=Oil Water Jet NS=Nuclear Steam Screw OLC=Oil Cable OLCT=Oil Catamaran OLH=Oil Screw Hydrofoil OLI=Oil Side Wheel OLS=Oil Screw OLW=Oil Stern Wheel SACT=Sail Catamaran SAIL=Sail STCT=Steam Catamaran STP=Steam Side Wheel STS=Steam Screw STW=Steam Stern Wheel TSUB=Tethered Submersible
6	Service	45-47	A3	See Table 5
7	Port of Documentation	48-51	A4	See Appendix B
8	Year Built	52-54	A3	NKN, UNK, or 3 digits

Data Element	Name	Columns	Format	Description
9	Gross Tonnage	55-59	I5	All tonnages are expressed in tons of 100 cubic feet
10	Net Tonnage	60-64	I5	
11	Low Gross Tonnage	65-69	I5	May be blank
12	Low Net Tonnage	70-74	I5	May be blank
13	Tonnage Type	75	A1	C=Conventional S=Alternate Single P=Pleasure D=Alternate Dual
14	Horsepower	76-80	I5	
15	Radio Signal Call Letters	81-87	A7	May be blank
16	Symbols Key	88	A1	0=Oil burner/steam (O/S) and Licensed Radio Only 1=O/S and Combined Signal and Radio Call letters 2=O/S 3=Licensed Radio Only 4=Combined signal and Radio Call letters 5=blank 6=O/S, Licensed Radio Only and American Bureau of Shipping (ABS) 7=O/S, Combined Signal and Radio Call Letters and ABS 8=O/S and ABS 9=Licensed Radio Only and ABS A=Combined Signal and Radio Call Letters and ABS B=ABS
17	Kind of Documentation	89	A1	R=Register L=License N=Yacht Enrollment E=Enrollment Y=Yacht License
18	Home Port	90-93	A4	See Appendix B
19	Where Built	94-123	A30	Left Justified
20	Length	124-128	F5.1	In feet and tenths of feet

Data Element	Name	Columns	Format	Description
21	Breadth	129-132	F4.1	In feet and tenths of feet
22	Depth	130-135	F3.1	In feet and tenths of feet
23	Owner Name	136-168	A33	Left Justified
24	Not Used	169-177	9X	Blank
25	First Line of Address	178-208	A31	Left Justified
26	Second Line of Address	209-241	A33	Left Justified
27	Third Line of Address	242-266	A25	Left Justified
28	Zip Code	267-271	I5	
29	Sort Field	272-279	A8	
30	Supplement Record Indicator	280	I1	0=No supplement 1=Supplement
31	Change Indicator	281	I1	0=No change 1=Change in year 2=Change in month
32	Date of Last Change	282-286	I5	Julian
33	Compound Name Break Position	287-288	I2	2 to 31
34	First Former Name	289-320	A32	Previous name of vessel

The data received for 1981 included all vessels registered up to January 1981. The data received for 1982 included only the additional registration records up to June 1982, or registrations from January 1981 up to and including June 1982. The number of records is listed in Table 7 below.

Table 7. NUMBER OF VESSEL RECORDS IN COAST GUARD FILES

	320-char. recs	64-char. recs
1981	153,410	165,512
1982	20,445	
Combined and Reformatted File (format described in Table 8)		167,034

C. Processing

1. Coast Guard Data

As mentioned previously, Coast Guard Vessel Registration data was received in two different formats. For the 1981 data processing, registration data up to January 1981 was sent in the format of 320-character records as well as 64-character records. The 64-character records were used and all of the routines were set up for that size and format. For the 1982 data processing, however, only the additional records from 1981 to 1982 were sent in the 320-character format. With the continuation of the data set in the other format, we had to make adjustments.

First of all, the 320-character records of both data sets were reformatted to 64-character records, but not in the same format as the Coast Guard's 64-character record file. During this reformatting process, the horsepower variable was written to an Integer 4 format, even though it was read as Integer 5. Only vessels with horsepower greater than 9,999 would have been affected. Very few of these, if any, were fishing vessels. These fields no longer contain the actual horsepowers, but a string of "****" instead. They must now be read using an alpha format.

Next, the new 64-character data files were appended together to create a contiguous and complete file containing Coast Guard registered vessels from the beginning until 1982. For processing, the files were merged on each record's identification number, which the Coast Guard assigns chronologically. This file was then used to supplement and verify the state-submitted vessel registration data. The format of the file is given in Table 8.

Table 8. FORMAT OF PROCESSED COAST GUARD FILE

Data Element	Name	Columns	Format	Description (see input description for clarification, Table 6)
1	Vessel Name	1-20	A20	
2	Blank	21	X	
3	Net Tons	22-26	I5	
4	ID #	27-32	I6	
5	Gross Tons	33-37	I5	
6	Length	38-40	I3	
7	Year Built	41-43	A3	
8	Horsepower	44-47	A4	**** is in field where I5 was forced into an I4 field
9	Blank	48-57	10X	
10	Service	58-60	A3	
11	Blank	61-64	3X	

After this processing, there were 167,034 Coast Guard records. In NEW79.CG (the original Coast Guard file), there were 153,410 records and in the NEW82.CG (the 1982 Coast Guard file), there were 20,445 records (there were some overlaps and errors).

2. Programs

Processing the input files was the first step to validate the state-submitted data before including it in the data base. The purpose of input processing was to check codes and sort order of the submitted files against what was requested.

Through the years, problems in the state-submitted files were similar. A progression of programs evolved to test for and correct such problems. As the problems were solved or assimilated, some of the programs were meshed together. The result over the four years of processing was fewer more complex programs for verifying each data set.

Because 1981 was the first year, the data for 1981 contained a significant number of errors and procedures that required

better definition. Also some steps of the processing had to be repeated because we were reanalyzing our programs and expectations. Since then the states built onto their programs for converting data codes and testing for common mistakes, and many of the original errors were not repeated. A number of FORTRAN programs were written for execution on the UCSD VAX to make corrections in market categories, disposition codes, erroneous blanks, port codes, and gear codes. Some files had to be resorted. When the errors were grave, the data set was returned to the submitting state for rectification.

All of the FORTRAN files are driven by DEC Command Language (DCL) .COM files. The .COM files must be edited for specific file names and disk locations before use. The actual .FOR files need only be compiled and linked. Sorts, merges, etc. are also done by .COM files which must be edited before execution. SPSS files are driven by .COM files which must be edited in addition to the actual job streams, which must also be edited for titles and file names.

The generalized diagram in Table 9 shows the logical steps and order of error testing during the input processing phase. The following paragraphs explain these steps in more detail.

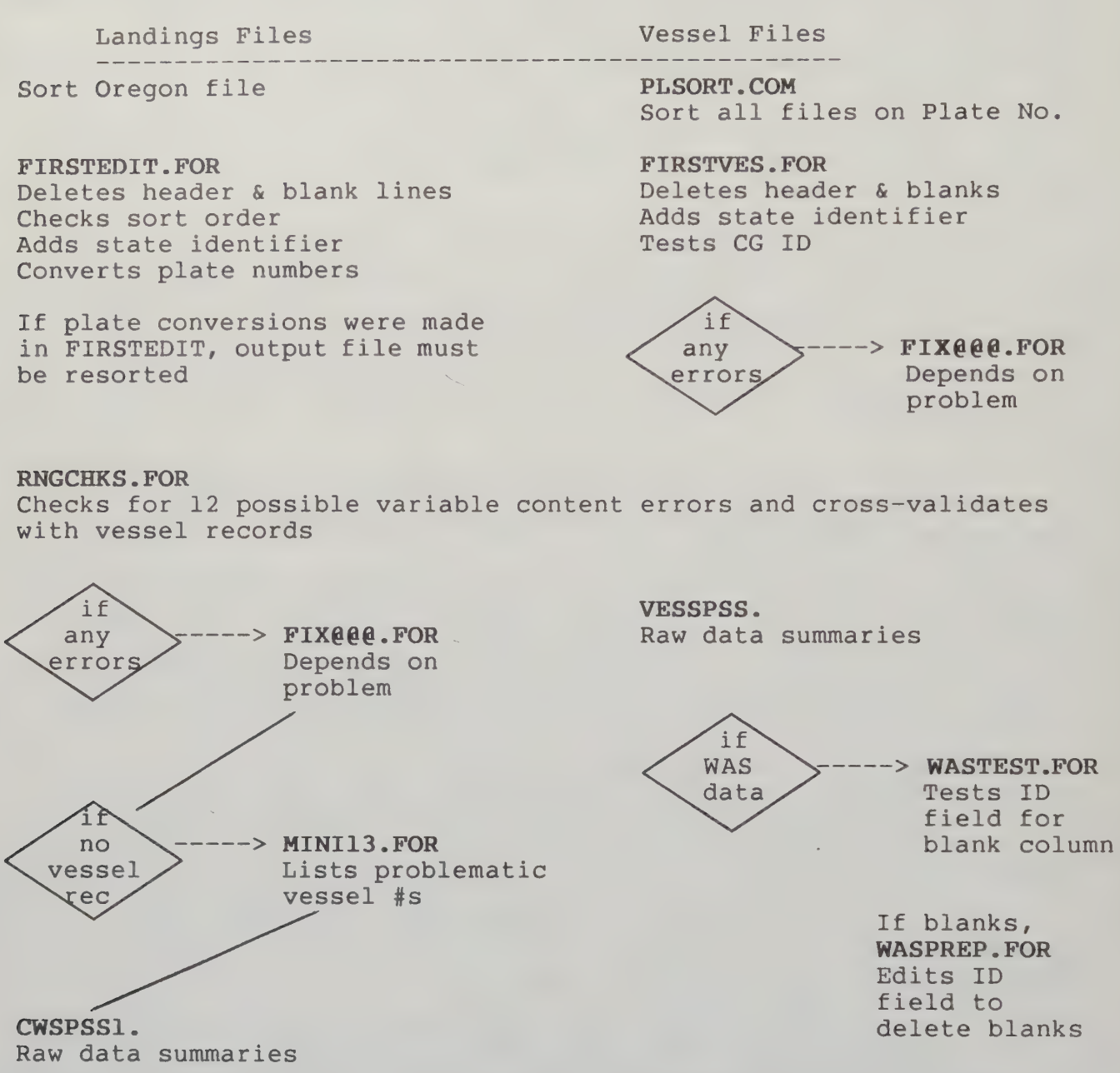
On the first run-through of the landings data, FIRSTEDIT.FOR finds errors in sort order, adds a state-identifier field, converts plate numbers to Coast Guard IDs, tests for and deletes any header or trailer lines that do not belong with the data, and creates an example file consisting of every 5000th record. Any problems identified are handled before further processing occurs.

FIRSTVES.FOR reads through the vessel files and adds a state-identifier field, tests validity of Coast Guard IDs, tests for and deletes any header or trailer lines that do not belong with the data, and creates an example file consisting of every 100th record.

A range checking program, RNGCHKS.FOR, next checks the landings files for acceptable data ranges for certain variables. Each landing record is checked for:

1) Is the date valid?
2) Check range on price; flag any greater than $10 per pound.
3) Is the size or grade code valid?
4) Is the disposition code valid?
5) Is the condition code valid?
6) Is the area type valid?
7) Based on the area type, should the area be blank?
8) Is the gear code valid?
9) Is the port landed code valid?
10) Is the market category code valid?
11) Is the ID type valid?
12) Based on the ID type, should the ID field be blank?
13) Is the ID matched to an ID in the vessel file?

Table 9. INPUT PROCESSING FLOW



Most data editing is done with FORTRAN programs which read in the data and write it out exactly the same except for the desired changes. Specific records to be changed are flagged by ID numbers, record number in the file, or the erroneous code that needs to be changed. Programs are necessary due to the large

@ = alpha wild card symbol

size of the data files involved. Few, if any, can be accessed through an editor. The editing programs are named FIX@@@.FOR, UP@@@.FOR, or MORE@@@.FOR for both the landings and the vessel files. They are written as needed for specific applications.

3. Exceptions

A few so-called "errors" are just accepted and processed. The following paragraphs give a history and explanation of the procedures developed for these digressions.

Theoretically, vessels that have reported landings should be present in the vessel registration file for each state. Oregon, however, has consistently had landings for vessels that are not represented in the registration file. For 1981 data, this occurred for 363 vessels with 2,163 landings records. For 1982 data, 278 vessels with 2,000 landings records were involved. Processing for 1983 showed 265 vessels with 1,300 landings, and 1984 listed 169 vessels with 1,372 landings. These discrepancies are picked out during the run of RNGCHKS.FOR. MINI13.FOR is then run on the resulting error file to determine the number of vessels involved. No further processing has been done to place the vessels or discover the reasons for this inaccuracy. They are possibly typographical errors.

The vessel registration files list Coast Guard Documentation Numbers or State Marine Board Numbers and state fishery agencies' Plate Numbers. The majority of Washington's identification numbers are State Marine Board Numbers. But, of those with Coast Guard Documentation Numbers, there is a blank embedded in the middle of the ID field (Table 3, Data Element 2). WASPREP.FOR removes this blank after WASTEST.FOR has tested to be sure the blank exists along with testing for left-justification of plate numbers and the possibility of the same number reported for the ID and the Plate Number.

The Oregon Vessel Registration files contain no plate numbers. The file is submitted by the state after it has been sorted by ID Type plus ID field; California and Washington Vessel files are submitted sorted by Plate Number.

The California Vessel Registration file does not include weight type, weight, or horsepower data for 1981, although this information was included in most cases in the 1982, 1983, and 1984 files.

Oregon files are written to tape with blanks padding the end of each file to fill the blocking factor. (This action is required by the tape write routines of their particular computer.) The number of blank lines is arbitrary, depending on the number of records in the file and the blocking size. The programs FIRSTEDIT.FOR (for landings) and FIRSTVES.FOR (for vessels), among other things, find, delete, and report the count of any trailing blank lines.

Vessel registration files must be checked for repitition. California vessel registration files contain exact duplicate records in some cases. Up to four records may exist in the Washington vessel data file, each one an update of the previous. This situation is rectified by deleting duplicates and saving only the most recent update of a record during the execution of DIVVYVES.FOR.

Not all vessel records had the opportunity to be matched with USCG records for cross-verification. The Coast Guard data file sent for processing with the 1981 PacFIN files contained registration records up to January 1981. The largest ID number assigned was reported to be 62360. (The file is chronological; the vessel was built in 1980.) All of the states had records of vessels built after that. For example, in 1981 California had 262 vessels registered after that; its largest ID number was 652658. Oregon had 66 vessels, and its largest ID number was 639307. Washington had 160 vessels not included in the Coast Guard file. Its largest ID number was 995981, which appeared to be from another scheme or it was an error. The actual number of vessels may be lower due to repitition.

III. SUMMARIZATION

A. Processing

Up to this point, we have described the original raw data submitted by the states (and Coast Guard) and the processing necessary to ready the data for summarization. We will now explain and justify the steps required to summarize the data.

1. Landings

The generalized flow diagram in Table 10 is expanded on by the following brief description of the summarization programs and their functions. Data file names are included in parentheses.

Some programs were consolidated during the four years of processing. The result was a more expedient and efficient stage of processing. The evolutionary programs are described here for historical tracking and significance:

DIVVY.FOR - divides landings data files (@@@LAND.8*) into two separate files based on ID Type: 1) landings records that can be identified with a vessel characteristics record (MAINLND.@8*) and 2) landings records not involving a vessel or with unidentifiable vessels, based on the vessel identification code (SIDELND.@8*). It also converts any landings records with state agency plate numbers to the corresponding U.S. Coast Guard or State Marine Board Number.

VESMATCH.FOR - reads a state landings record (MAINLND.@8*) and compares it first with the same state's collection of vessel records (@@@VES.8*). If no match is made, then it compares it with all of the states' collections of vessel records (TOTVES.8*) looking for a match. The purpose is to separate the output file into records which can be linked to a vessel (GOODLND.8*) from those that cannot be linked even though they carry an ID type that should be matchable (BADLND.8*).

RECHECK.FOR - rechecks processing of landings (DLY@@@.8*) and vessel records (NEWVES.8*) so that only those that can be connected (via ID #) are still remaining.

-->DIVLAND.FOR -- was rewritten for 1982 and the succeeding years of data to incorporate the functions of DIVVY.FOR, VESMATCH.FOR, and RECHECK.FOR. Washington state data were still pre-processed through program DIV.FOR to convert state vessel plate numbers to Coast Guard ID Numbers. (Input files are @@@LAND.8* or GOODLND.8*, TOTVES.8* or NEWVES.8*, and NEW@@@VES.8*. Output files are DLY@@@.8* and NOVESLND.@8*.)

@ = alpha wild card symbol
* = numeric wild card symbol

Table 10. SUMMARIZATION PROCESSING FLOW - LANDINGS

-----> **DIV.FOR**
Separates file based on ID Type

DIVLAND.FOR Matches landings with vessels to separate from those with no corresponding record

(Output file:DLY@@@.8*) (Output file:NOVESLND.@8*)

CWSPSS2.
Statistics for landings without vessels

PRSPSS.
Statistical summary of price per pound for all species

-----> **FMISSING.FOR**
Finds species without prices

YRSUM.FOR
Summarizes species, port, gear combinations per year

WKMERGE.COM
Merges summarized weekly files

YRMERGE.COM
Merges daily landings files

WEEKSUM.FOR
Summarizes species, port, & gear combinations per week for each state

FMISSING.FOR - reads through landings records (DLY@@@.8*) and supplemental prices file (PRIMON@@@.8*) and finds any records that are missing a price and are not represented in the supplemental file. Certain species also have grade qualifications that are considered.

YRSUM.FOR - reads daily landings files (DLY@@@.8*) per state and summarizes on species, port, and gear code combinations. Totals tonnage and value for the year, filling in missing prices (PRIMON@@@.8*). (Output files are @@@THREE.8*.)

YRMERGE.COM - merges the three resulting output files from YRSUM (@@@THREE.8*) using the ID Type plus ID field as the key to form one yearly landings file (YRSUMLND.8*).

WKMERGE.COM - merges the three daily landings files (DLY@@@.8*) using ID Type plus ID Number and Date as the keys to form one large landings file (DLY8*.TOT).

WEEKSUM.FOR - reads the large daily landings file (DLY8*.TOT) from WKMERGE and summarizes on species, port, and gear code combinations. Totals tonnage and value for the week, filling in missing prices (PRIMON@@@.8*). (Output file is WKSUMLND.8*.)

2. Vessels

The summing processes for the vessel registration files is not as complicated as the processes for the landings. The following program descriptions are listed in the order they were executed.

VESEDIT.FOR - reads a vessel record (@@@VES.8*), tests to see if it is empty, then tests for a match (on vessel ID and name) to a Coast Guard vessel record (NEWCG.TOT). If there is a match on ID, then the Coast Guard record is added to the end of the record and written to the new file (NEW@@@VES.8*). If there is no match, just the state vessel record is written to the new file and the ID is written to a file (NOCG4@@@.V8*). If the name submitted by the state doesn't match the USCG name, the record is also written to another file (MISNAME@.V8*).

VESJOB.COM - merges vessel files for California, Oregon, and Washington (NEW@@@VES.8*) into one file (TOTVES.8*).

The following three programs were consolidated into a fourth program through the years of processing:

DOUBVES.FOR - reads through the vessels file and makes a separate file of records that are repeated in the main vessels file based on the vessel ID field.

LESVES.FOR - reads through the merged vessels file and writes possible bad records to another file and deletes duplicate records.

LNDMATCH.FOR - reads a vessel record and compares it first with California's collection of landings records. If no match is made, then it compares it with Oregon's and then Washington's collection of landings records until a match is found. The purpose is to separate the merged file into records that can be linked to a landing from those that cannot be linked.

-->DIVVYVES.FOR - reads the merged vessels file (TOTVES.8*) and writes bad records, duplicate records, and records with no match to landings records (DLY@@@.8*) to a separate file (BADVES.8*), and the viable and matchable records are written to another file (GOODVES.8*). This program was re-written to include the functions of DOUBVES.FOR, LESVES.FOR, and LNDMATCH.FOR for the 1982 (and ensuing years of) data.

ONEVESREC.FOR - condenses all records (GOODVES.8*) for one vessel into one record (NEWVES.8*) in the final PacFIN format.

3. Computation of Variables

In this section, the function and origin of all output variables are explained. If necessary, the justification or how a variable was computed in the past is described.

LANDINGS:

File Type -- not computed. Supplied during command line processing of the summary program.

Year -- not computed. Supplied during command line processing of the summary program.

Time Period -- blank for yearly summaries. Taken from data input (MONTH) for monthly summaries. Reported as the number of the week of the year (from 1 to 52) for weekly summaries, it is computed based on projections for the first week of the year, the month, and the day.

Vessel ID Type -- not computed; directly transferred from raw data.

ID Number -- not computed; directly transferred from raw data.

Number of Tickets -- an accumulation counter incremented whenever the day of the week changes per summary unit. Computes number of input records summarized into this output record.

Number of Records -- computed as the number of output records for a particular vessel.

State -- not computed. Inserted during data checking routines. Refers to the state of origin of the pink (landings) ticket.

Species -- not computed; directly transferred from raw data.

Gear -- not computed; directly transferred from raw data.

Port -- not computed; directly transferred from raw data.

Tons -- pounds are totaled for the summary unit and the total is divided by 2000.

Value -- the cumulative amount of price per pound multiplied by the number of pounds is recorded per summary unit.

VESSELS:

Vessel ID Type -- not computed; directly transferred from raw data.

ID Number -- not computed; directly transferred from raw data.

California Plate Number -- when available, directly transferred from raw data.

Washington Plate Number -- when available, directly transferred from raw data.

Length Type -- determined by origin of length.

Length -- not computed.

Weight Type -- determined by origin of weight.

Weight -- not computed.

Horsepower Type -- determined by origin of horsepower.

Horsepower -- not computed.

Registration -- determined by state(s) of registration.

Vessel Name -- if available, transferred directly from raw state data.

Coast Guard Length Type, Length, Weight Type, Weight, Horsepower Type, Horsepower, Year Built, Service, Name -- not computed; transferred directly from USCG submitted data.

4. Statistical Summaries

To obtain meaningful statistics and frequency distributions for many of the submitted variables, statistical summaries were processed using the Statistical Package for the Social Sciences (SPSS). The summaries are useful for detecting errors and missing values in the data, determining patterns among states' data, quantifying some variables, and generalizing about others. A brief description of the programs and their functions follows. The programs had to be updated to run under the new package, SPSSX, for 1983 and succeeding years of data. Other changes have been made to produce more complex and significant relationships. The actual summaries are not contained in this report.

CWSPSS1. - used to determine the frequency distributions of the variables Port Landed, Catch Area, ID Type, Market Category, Condition, Disposition, Numbers Caught, Grade, Catch in Pounds, Price, Gear, and State for each state-submitted file after corrections were made to the raw data.

CWSPSS2. - used to determine the frequency distributions of the same variables listed above for the file of landings records that do not have corresponding vessel records (NOVESLND.*).

VESSPSS. - used to determine the frequency distributions of the variables ID Type, Length Type, Length, Weight Type, Weight, and Horsepower; and to determine the distribution of the ID Types of those vessels without submitted names.

PRSPSS. - used to determine average price per pound of all species for each state.

The following SPSS programs were used for the 1981 data only. They were used to explore error conditions in the data.

LILSPSS. - used to show the distribution of ID Types for California landings.

SMSPSS. - used to show the distribution of market category codes in the 148 cases of California landings where the price per pound of fish exceeded $10.

FINDPORT. - used to explore the distribution of 4660 port code errors extracted from California landings data.

5. Missing Prices Procedures

In some cases, the value for the price per pound was not available so the field showed a negative value or a blank. The most common value used is -01. In order to supply an accurate price for the summarization processes, a procedure was developed using statistical summaries to average catches of the same species during the appropriate time period. Only when there were no other catches of a particular species with a valid price were arbitrary prices assigned. A description of the steps for this procedure follows.

1) An SPSS program (PRSPSS.) is run on the data files (DLY@@@.8*) to find the mean price for each species. For yearly data, the statement is

```
BREAKDOWN      TABLES=PRICE BY MRKCAT
```

For monthly data, the statement is

```
BREAKDOWN      TABLES=PRICE BY MONTH BY MRKCAT
```

For species of CHNK, COHO, and SABL, the SPSS run also differentiates according to the grade. For these cases, the statement is

```
BREAKDOWN      TABLES=PRICE BY GRADE BY MRKCAT
```

and for the monthly data, the statement is

```
BREAKDOWN      TABLES=PRICE BY GRADE BY MONTH BY MRKCAT
```

2) For the first year of processing, yearly price summaries were used for the yearly landings summary records and monthly price summaries were used for the monthly landings summary records. After that, we decided the monthly figures provided more accurate results and they were used for both yearly and monthly landings summaries. The price summary files were created in the following format:

Table 11. FORMAT OF MONTHLY MISSING PRICES RECORDS
(1981 format differs slightly; see Appendix D)

Data Element	Name	Columns	Format	Description
1	Month	1- 2	I2	Month of year of landing
2	Species	3- 6	A4	See Market Category List*
3	Price	7-11	F5.3	Average price per pound as reported in this state for this month
4	Grade	12	A1	Applicable only for species CHNK, COHO, and SABL U=Unspecified X=Extra Small S=Small M=Medium L=Large

* Appendix A

3) After the missing prices data files were keyed in, FMISSING.FOR was used to find further missing prices whose averages could not be computed because there were no catches of that species. Arbitrary values were supplied by Dr. Dan Huppert based on other states' data. Editing was done to enter those values. In the processing of 1981 data for yearly summaries, this only occurred in three cases:

Table 12. LISTS OF SUPPLIED PRICES

State	Species	Price
CAL	ANIF	$.10
ORE	RCRB	.75 (from CAL data)
ORE	EELS	.36 (from CAL data)

During the processing of the 1981 weekly landings summaries, this occurred more frequently, as can be seen from the following list.

State	Species	Month(s)	Price
CAL	SPRK	10	$.15 (from CAL month 9)
	MSQD	2	.0538 (from CAL month 1)
	ATNA	5	.9181 (from CAL month 6)
	BSJK	9,11	.10 (from CAL month 8)
	OTNA	6	.6766 (from CAL month 7)
	CLPR	9	.3267 (from CAL month 8)
	OTNA	11	.8483 (from CAL month 10)

Summarization

State	Species	Month(s)	Price
	ORCK	5	.4922 (from CAL month 6)
	WDOW	1	.1597 (from CAL month 4)
	WABL	11	.2190 (from CAL month 10)
ORE	USRK	6,7	.433 (from ORE yearly)
	DSRK	7,12	.1407 (from ORE yearly)
	CLAM	10	.3231 (from ORE yearly)
	RCRB	4	.6853 (from CAL)
	PWHT	10	.0691 (from ORE yearly)
	SMLT	1	.1986 (from ORE yearly)
	SABL (S)	2	.1227 (from ORE yearly)
WAS	CHNK (L)	6	2.8161
	NANC	9	.25 (from ORE month 8)
	CHNK (U)	6	1.426

For the 1982 processing, monthly summaries of prices were used for both the weekly and yearly summaries. The following list from Dr. Dan Huppert supplied prices that did not exist.

State	Species	Month(s)	Price
CAL	ANIF	1-7,9-12	$.10
	CHUM	6	1.98
	MSQD	8	.1677
	SPRK	8	.1747
	PSDN	11	.1045
	PCOD	7	.30
	PSHP	12	1.4757
	PSHP	3	.5237
	COHO (S)	4	1.5449
	YTNA	11	.592
	MSQD	3	.78
	MSQD	2	.71
	MSQD	0	.0661
	BTNA	6	.9742
	STRY	3	.30
	OTNA	1	.75
	CRST	1	3.5929
	OABL	12	2.40
	RCK2	7	.4720
	CRST	2	3.5929
	OSHP	1	4.6538
	OSHP	8,12	4.8612
	OSHP	11	1.60
	CHNK (U)	10	1.391
ORE	EELS	2,3,4,5,6	.24
	DSRK	1,7,8,9	.06
	SSRK	6	.40
	MSQD	3	.14
	MSQD	1	.248
	POP	2	.179
	UMCK	7,9,10	.05
	NANC	10	.25
	PHRG	8	.444

State	Species	Month(s)	Price
	CLAM	7	.35
	CLAM	6	.55
	RSHD	7	.5957
WAS	SABL (U)	8	.4775
	SCLP	6	.25
	CHUM	5	1.15
	PINK	9	.4814

The 1983 supplemental prices were:

State	Species	Month(s)	Price
CAL	ANIF	1-12	$.05
	COHO (S)	10,11	2.00
	SPRK	1	.15
	CBRC	12	1.00
	USMN	2	2.75
	PWHT	12	.076
	BTNA	3	.49
	CRST	3,5	1.00
	WABL	6	3.12
	OABL	7	1.67
	OABL	4	3.88
	OSHP	4	2.00
	RHLB	6	.50
ORE	DSRK	1,4,7,8,11,12	.09
	USRK	2	.25
	COHO (U)	6	.95
	EELS	1,2,3	.175
	PWHT	4,11	.10
	PHRG	5,6,8,9	.70
	SMLT	6	.20
	TCRB	3,10	4.27
	EELS	12	.157
WAS	PINK	5	.30
	SABL (U)	8	.259
	SABL (U)	9	.27
	SABL (U)	3	.334
	PWHT	8	.170
	SABL (U)	10	.32
	SABL (U)	11	.269
	SABL (U)	7	.29
	SABL (U)	12	.264

The 1984 pricing files were supplemented by:

State	Species	Month(s)	Price
CAL	ANIF	1-12	$.05
	EELS	2	.25
	OCRK	1	.6225
	OCRK	5	.693
	CHNK (M)	11	2.74

Summarization

State	Species	Month(s)	Price
	CHNK (L)	11	3.25
	RHLB	6,7,9	1.50
	BSRK	1	.25
	PCOD	7	.28
	PWHT	11	.0814
	RABL	2	3.122
	RCK7	1	1.15
	RCK3	12	.45
	DSRK	6	.10
ORE	EELS	1,2,10,12	.20
	DSRK	6,7,8,9,10,11	.25
	RSOL	12	.311
	UMCK	3,8	.20
	MSQD	7	.2277
	PWHT	4,12	.06
	RCRB	2,3,4,5,6,7,8,9	.82
	PHRG	7	.265
	CLAM	5	.396
	ATNA	6	.641
	RSHD	7	.251
WAS	SABL (U)	2	.40
	CLAM	7	.156
	RCRB	1	.40

B. Data Integrity Checking Programs

The following is a description of the checks on the processing of the yearly and weekly summary files and the compilation of the vessel registration file.

CKINDIV.FOR - compares individual cases from raw state-submitted data files to the summary records.

RDWRIDCK.FOR - checks ID codes in the summary files.

TESTENDID.FOR - tests final IDs of raw data and summary files to be sure the job stream was completed and accurate.

IV. OUTPUT

A. Valid and Invalid Data

The landings files are separated into valid and invalid data, and then the valid data files are summarized into the final output files. The vessel files are similarly processed. During all phases of processing, key data files were kept on a permanent storage medium, magnetic tapes. If a particular phase of processing has to be recreated, the intermediate files are available. It is not necessary to start over from the state-submitted data files. Also, data are often requested from one of the intermediate files. Requests from outside the state of California are usually completed using intermediate data to avoid dispersion of confidential data.

A description of the valid and invalid data on the key data files and intermediate and final output files is presented below.

1. Landings

@@@LAND.8* (CALLAND.8*, ORELAND.8*, WASLAND.8*, also N@@@LAND.8*)

These files contain validated state-submitted data in the format described in Table 1, except for the addition of a one-character state identifier (i.e. C, O, or W) in column 70. These files have already been through error and range checking programs and any data fixing routines that were necessary. The next step separates the files based on correspondence to vessel registration records.

NOVESLND.@8* (NOVESLND.C8*, NOVESLND.O8*, NOVESLND.W8*)

The landings files were divided according to vessel ID correspondence with the vessel file. The invalid records were written to these files. They constitute all of the landings without vessel matches. Statistics are computed for these landings and no further processing is done to them. The files are in the same format as the @@@LAND.8* files.

DLY@@@.8* (DLYCAL.8*, DLYORE.8*, DLYWAS.8*)

After the @@@LAND.8* files are checked for and rid of any non-corresponding records, it is a DLY@@@.8* file. It contains all valid (error-free and represented by a valid registered vessel) landings records in what is considered to be daily files, even though not all vessels land on a daily basis. The format is the same as that for @@@LAND.8*. The summary files are then processed from these files.

@ = alpha wild card symbol
* = numeric wild card symbol

2. Vessel Registration Summaries

The vessel registration summary files are the product of state-submitted registration data (from as many of the three states as a vessel may be registered in) and Coast Guard registration data when available. If a vessel is registered in more than one state, data is averaged with the other states' data. Coast Guard data is added to the end of the record when a match is made based on ID numbers.

The processing done to compile the vessel registration files created intermediate and final output files of valid and invalid data that are stored on tape. These are described below.

@@@VES.8* (CALVES.8*, OREVES.8*, WASVES.8*)
These files contain validated state-submitted data in the format described in Table 3 except for the addition of a one-character state identifier (i.e. C, O, or W) in column 64 (34 for 1981). These files have already been through error and range checking programs and any data fixing routines that were necessary. The next step is to match and append Coast Guard data records.

NEW@@@VES.8* (NEWCALVES.8*, NEWOREVES.8*, NEWWASVES.8*)
(NEW@@@.V81 for 1981, i.e. NEWCAL.V81, NEWORE.V81, NEWWAS.V81)
Coast Guard records were appended to the end of state vessel registration records that cross-matched on ID Numbers and Vessel Names (ID Numbers only for 1981) to create the contents of these files. The number of records is unchanged from the @@@VES.8* files. The format consists of the first 64 (34 for 1981) columns of the state record (as in the @@@VES.8* files) followed (only if there was a successful cross-matching) by the 64 columns of the Coast Guard record (described in Table 8).

BADVES.8* (BADVES.81, BADVES.82, BADVES.83, BADVES.84)
The three state files are merged on USCG ID numbers and then separated into 2 files of valid and invalid data. This file contains the invalid, repeated, or unmatched records; that is, those that contain bad data items, are duplications, or are without complementary landings records. No further processing was done to them.

NEWVES.8* (NEWVES.81, NEWVES.82, NEWVES.83, NEWVES.84)
This is the final version of the vessel registration file. It contains all valid (error-free and present in landings files) records. The format of this file is listed in Table 13.

ERRVES.8* (ERRVES.81, ERRVES.82, ERRVES.83, ERRVES.84)
This file contains cases in which a vessel's length was either zero or there were ten feet or more difference between the state-reported length and the Coast Guard-reported length. These records were not excluded from NEWVES.8*.

JUNKVES.81 (1981 data only)
898 records were deemed invalid due to duplications and bad

data items. If combined with BADVES.81, the resulting file would be the equivalent of other years' BADVES.8* file.

GOODVES.81

Valid and invalid data files were created depending on whether the vessel registration records had corresponding landings records. This file is a precursor file containing valid data before the summing for NEWVES.81. It contains 18,192 records that were linked to landings.

Data from 1981 was processed with only a check on the ID number as a match, but the 1982 data was further checked on the vessel name also. This means there is a different format for the output files. Files for 1982, 1983, and 1984 were processed into the final format described in Table 13. The format for the 1981 final Vessel Registration File is in Appendix D.

Table 13. PACFIN VESSEL REGISTRATION FILE FORMAT

Data Element	Name	Columns	Format	Description
1	Vessel ID Type	1	I1	1=United States Coast Guard 2=State Marine Board 3=none
2	ID Number	2- 9	A8	
3	CAL Plate No.	10-17	A8	If available; Left-justified
4	WAS Plate No.	18-25	A8	If available; Left-justified
5	USCG Length Type	26	I1	3=USCG
6	USCG Length	27-29	I3	
7	USCG Weight Type	30	I1	3=USCG reported - gross
8	USCG Weight	31-35	I5	
9	USCG Weight Type	36	I1	4=USCG reported - net
10	USCG Weight	37-41	I5	USCG reported, if available
11	USCG Horsepower Type	42	I1	2=USCG
12	USCG Horsepower	43-46	I4	
13	States' Length Type	47	I1	1=Overall length in feet 2=Keel length in feet 4=Average of states' reported lengths

Data Element	Name	Columns	Format	Description
14	States' Length	48-50	I3	
15	States' Weight Type	51	I1	1=Net tonnage 2=Gross tonnage 4=Average of states' reported weights
16	States' Weight	52-56	I5	
17	States' Horsepower Type	57	I1	1=State/owner reported 3=Average of states' reported horsepowers
18	States' Horsepower	58-61	I4	
19	Registration	62	I1	1=California only 2=Oregon only 3=Washington only 4=Cal., Ore. & Wash. 5=California & Oregon 6=California & Washington 7=Oregon & Washington
20	Year Built	63-65	A3	If available
21	Service	66-68	A3	see Table 5
22	Vessel Name	69-88	A20	From state, if available
23	Vessel Name	89-108	A20	From USCG, if available and different from state

The number of records per file is listed below.

Table 14. NUMBER OF RECORDS IN FINAL VESSEL FILES

File	Number of Records:
NEWVES.81	15,408
NEWVES.82	14,628
NEWVES.83	13,615
NEWVES.84	9,628

B. Landings Summaries

To create a file which contains data from all three states and is summarized per vessel on market category, port, and gear for the year, the individual state files were processed into yearly summary records and then the three files were merged. Even though a vessel may have landed fish in more than one state, there could never be a conflict in the summarization because the states share no ports.

When the 1981 data were processed, the yearly summary file and the weekly summary file had different formats. When the 1982 data were processed, the programs were re-designed so all summary files (YRSUMLND.8* and WKSUMLND.8*) had the same format, which is described in Table 15 below. The 1981 data were then reprocessed into the new format.

To create the yearly summary files, the DLY@@@.8* were processed using YRSUM.FOR to summarize the landings for each state individually. (These intermediate summary files are named @@@THREE.8*.) The three files were then merged using YRMERGE.COM to create the final output file, YRSUMLND.8*.

To create the weekly summary files, the DLY@@@.8* files were merged (using WKMERGE.COM) to make a file called DLY8*.TOT, which contained all of the daily records to be summed. This file is not saved because of its size and the ease of re-creating it. Then WEEKSUM.FOR is executed to read through all of the daily records and sum them per vessel per week. The result of this execution is then saved in a file, WKSUMLND.8*.

Table 15. PACFIN LANDINGS SUMMARY FILE FORMAT

Data Element	Name	Columns	Format	Description
1	File Type	1	I1	1=Weekly Summaries 2=Monthly Summaries 3=Yearly Summaries
2	Year	2- 3	I2	Year of Landings
3	Time Period	4- 5	I2	1 - 52 for Weekly Summaries Blank for Yearly Summaries
4	Vessel ID Type	6- 7	I2	11=USCG Documentation Number 12=State Marine Board Number 13=State Agency Plate Number
5	ID Number	8-15	A8	

Data Element	Name	Columns	Format	Description
6	No. of Tickets	16-19	I4	Weekly: Number of days ... Yearly: Number of pink tickets ... ... summarized for this vessel per time period, state, species, port, and gear
7	No. of Records	20-23	I4	Number of records in this file for this vessel
8	State	24	A1	C=California O=Oregon W=Washington
9	Market Category	25-28	A4	see Appendix A
10	Gear	29-32	A4	see Appendix C
11	Port	33-37	A5	see Appendix B
12	Tons	38-47	F10.2	Computed from total pounds
13	Value	48-57	F10.	Computed from total pounds multiplied by price per pound

The number of records per file for each year is listed in Table 16 below.

Table 16. NUMBER OF RECORDS IN LANDINGS SUMMARY FILES

File	Number of Records:
YRSUMLND.81	87,766
WKSUMLND.81	308,734
YRSUMLND.82	76,860
WKSUMLND.82	286,574
YRSUMLND.83	71,273
WKSUMLND.83	249,730
YRSUMLND.84	59,169
WKSUMLND.84	221,731

C. Data Storage

The lists in Table 17 define the tape storage and backup tape storage of the data files for all four years of PacFIN processing described.

Table 17. TAPE STORAGE OF DATA FILES

1981:

FILENAME:	ON TAPE(S):	# OF RECORDS:
LANDINGS:		
DLYCAL.81	A81TP,BU8102	279,675
DLYORE.81	A81TP,BU8102	151,513
DLYWAS.81	A81TP,BU8102	160,683
CALLAND.81	A81TP,BU8102	292,772
CALTHREE.81	A81TP,BU8102	33,324
NOVESLND.C81	VES81,PFBU81	13,097
NOVESLND.O81	VES81,PFBU81	7,477
NOVESLND.W81	VES81,PFBU81	125,198
ORELAND.81	A81TP,BU8102	158,990
ORETHREE.81	A81TP,BU8102	20,355
PRICEMON.CAL	A81TP,BU8102	945
PRICEMON.ORE	A81TP,BU8102	425
PRICEMON.WAS	A81TP,BU8102	467
PRICEYR.CAL	PFPGMS	93
PRICEYR.ORE	PFPGMS	51
PRICEYR.WAS	PFPGMS	54
WASLAND.81	A81TP,BU8102	285,881
WASTHREE.81	A81TP,BU8102	34,087
WKSUMLND.81	SUMS,MOREPF	308,734
YRSUMLND.81	SUMS,MOREPF	87,766
VESSELS:		
BADVES.81	VES81,PFBU81	19,202
CALVES.81	VES81,PFBU81	15,666
ERRVES.81	VES81,PFBU81	223
GOODVES.81	VES81,PFBU81	18,192
JUNKVES.81	VES81,PFBU81	898
NEWCAL.V81	VES81,PFBU81	15,666
NEWORE.V81	VES81,PFBU81	4,385
NEWWAS.V81	VES81,PFBU81	18,241
OREVES.81	VES81,PFBU81	4,385
WASVES.81	VES81,PFBU81	18,246
NEWVES.81	SUMS,MOREPF	15,408

1982:

FILENAME:	ON TAPE(S):	# OF RECORDS:
LANDINGS:		
CALTHREE.82	NEW82,GOOD82	34,583
DLYCAL.82	NEW82,GOOD82	304,394
DLYORE.82	NEW82,GOOD82	129,752
DLYWAS.82	NEW82,GOOD82	122,083
EXAMCAL.82	NEW82,GOOD82	
EXAMORE.82	NEW82,GOOD82	
EXAMWAS.82	NEW82,GOOD82	
ID03ERR.C82	NEW82,GOOD82	41
ID03ERR.W82	NEW82,GOOD82	124
MINI13.ORE	NEW82,GOOD82	278
NOVESLND.C82	NEW82,GOOD82	14,844
NOVESLND.O82	NEW82,GOOD82	8,989
NOVESLND.W82	NEW82,GOOD82	122,888
NUCALLAND.82	NEW82,GOOD82	319,238
OREERROR.13	NEW82,GOOD82	2,000
ORELAND.82	NEW82,GOOD82	138,741
ORETHREE.82	NEW82,GOOD82	15,941
PLONLY.W82	NEW82,GOOD82	173
PRICEMON.CAL	NEW82,GOOD82	1,067
PRICEMON.ORE	NEW82,GOOD82	418
PRICEMON.WAS	NEW82,GOOD82	480
WASERROR.2	NEW82,GOOD82	1
WASLAND.82	NEW82,GOOD82	244,971
WASTHREE.82	NEW82,GOOD82	26,336
WKSUMLND.82	SUMS,MOREPF	286,574
YRSUMLND.82	SUMS,MOREPF	76,860
VESSELS:		
BADVES.82	NEW82,GOOD82	23,236
CALVES.82	NEW82,GOOD82	17,223
ERRVES.82	NEW82,GOOD82	231
NEWCALVES.82	NEW82,GOOD82	17,223
NEWOREVES.82	NEW82,GOOD82	4,012
NEWWASVES.82	NEW82,GOOD82	19,241
NOCG4CAL.V82	NEW82,GOOD82	1
NOCG4WAS.V82	NEW82,GOOD82	8
OREVES.82	NEW82,GOOD82	4,012
WASVES.82	NEW82,GOOD82	19,241
NEWVES.82	SUMS,MOREPF	14,628

1983:

FILENAME	ON TAPE(S)	# OF RECORDS
LANDINGS:		
CALLAND.83	RAWORE,RAWASH	232,542
DLYCAL.83	RAWORE,RAWASH	223,403
DLYORE.83	RAWORE,RAWASH	109,847
DLYWAS.83	RAWORE,RAWASH	99,010
ERROR1.CAL	RAWORE,RAWASH	2
ERROR12.ORE	RAWORE,RAWASH	
ERROR13.ORE	RAWORE,RAWASH	1,300
ERROR2.CAL	RAWORE,RAWASH	154
EXAMPLE.O83	RAWORE,RAWASH	23
ID03ERR.W83	RAWORE,RAWASH	125
NORELAND.83	RAWORE,RAWASH	116,187
NOVESLND.C83	RAWORE,RAWASH	9,139
NOVESLND.W83	RAWORE,RAWASH	116,381
NOVESLND2.O83	RAWORE,RAWASH	6,340
PLONLY.W83	RAWORE,RAWASH	86
PRIMONCAL.83	RAWORE,RAWASH	
PRIMONORE.83	RAWORE,RAWASH	
PRIMONWAS.83	RAWORE,RAWASH	
WASLAND.83	RAWORE,RAWASH	215,391
WKSUMLND.83	RAWORE,RAWASH,SUMS,MOREPF	249,730
YRSUMLND.83	RAWORE,RAWASH,SUMS,MOREPF	71,273
VESSELS:		
BADVES.83	RAWORE,RAWASH	24,794
CALVES.83	RAWORE,RAWASH	17,223
ERRVES.83	RAWORE,RAWASH	175
NEWCALVES.83	RAWORE,RAWASH	17,223
NEWOREVES.83	RAWORE,RAWASH	3,674
NEWVES.83	RAWORE,RAWASH,SUMS,MOREPF	13,615
NEWWASVES.83	RAWORE,RAWASH,YRSDAT,RAWCAL	19,973
NOCG4CAL.V83	RAWORE,RAWASH	1
NOCG4WAS.V83	RAWORE,RAWASH	7
OREVES.83	RAWORE,RAWASH	3,674
TWOVES.W83	RAWORE,RAWASH	2
WASVES.83	RAWORE,RAWASH	19,976

1984:

FILENAME	ON TAPE(S)	# OF RECORDS
LANDINGS:		
DLYCAL.84	YRSDAT,RAWCAL	210,637
DLYWAS.84	YRSDAT,RAWCAL	92,637
ERROR1.CAL	YRSDAT,RAWCAL	69
ERROR10.CAL	YRSDAT,RAWCAL	1
ERROR12.ORE	YRSDAT,RAWCAL	7,361
ERROR13.ORE	YRSDAT,RAWCAL	1,372
ERROR13.WAS	YRSDAT,RAWCAL	92,279
ERROR2.CAL	YRSDAT,RAWCAL	334
EXAMPLE.C84	YRSDAT,RAWCAL	
EXAMPLE.O84	YRSDAT,RAWCAL	
EXAMPLE.W84	YRSDAT,RAWCAL	
ID03ERR.C84	YRSDAT,RAWCAL	16
MINI13.ORE	YRSDAT,RAWCAL	169
MINI13.WAS	YRSDAT,RAWCAL	3,329
NCALLAND.84	YRSDAT,RAWCAL	218,871
NDLYORE.84	YRSDAT,RAWCAL	77,984
NORELAND.84	YRSDAT,RAWCAL	90,132
NOVESLND.C84	YRSDAT,RAWCAL	8,234
NOVESLND.O84	YRSDAT,RAWCAL	12,148
NOVESLND.W84	YRSDAT,RAWCAL	98,139
PLONLY.W84	YRSDAT,RAWCAL	71
PRIMONCAL.84	YRSDAT,RAWCAL	
PRIMONORE.84	YRSDAT,RAWCAL	
PRIMONWAS.84	YRSDAT,RAWCAL	
WASLAND.84	YRSDAT,RAWCAL	190,776
WKSUMLND.84	YRSDAT,RAWCAL,SUMS,MOREPF	221,731
YRSUMLND.84	YRSDAT,RAWCAL,SUMS,MOREPF	59,169
VESSELS:		
BADVES.84	YRSDAT,RAWCAL	28,605
CALVES.84	YRSDAT,RAWCAL	18,372
ERRVES.84	YRSDAT,RAWCAL	156
EXVES.C84	YRSDAT,RAWCAL	
EXVES.O84	YRSDAT,RAWCAL	
MISNAMEC.V84	YRSDAT,RAWCAL	1,276
MISNAMEO.V84	YRSDAT,RAWCAL	86
NEWCALVES.84	YRSDAT,RAWCAL	18,372
NEWOREVES.84	YRSDAT,RAWCAL	1,740
NEWVES.84	YRSDAT,RAWCAL,SUMS,MOREPF	9,628
OREVES.84	YRSDAT,RAWCAL	1,740

COAST GUARD:

FILENAME	ON TAPE(S)	# OF RECORDS
ACGFSHVES.DAT	CGDAT,FOR82	
CG82.DAT	CGDAT,FOR82	
NEW79.CG	CGDAT,FOR82,VES81,PFBU81	
NEW82.CG	CGDAT,FOR82	20,445
CG79.2	CGDAT	
CGTAPE.1	CGDAT	
CGVES79.2	CGDAT,VES81,PFBU81	
NEWCG.TOT	CGDAT,RAWASH,RAWORE	same file on all 3 tapes?

PACIFIC FISHERIES INFORMATION NETWORK:
DOCUMENTATION FOR CONSTRUCTION OF THE RESEARCH DATA BASE

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APPENDIX A

CALIFORNIA STATE/PACFIN MARKET CATEGORY CODE LIST

CAL CODE	PACFIN CODE	MARKET CATEGORY	CAL CODE	PACFIN CODE	MARKET CATEGORY
0001	YTNA	TUNA, YELLOWFIN	0156	OSRK	SHARK, BASKING
0002	STNA	TUNA, SKIPJACK	0158	OSRK	SHARK, HAMMERHEAD
0003	PBNT	BONITO, PACIFIC	0159	SSRK	SHARK, SOUPFIN
0004	BTNA	TUNA, BLUEFIN	0160	OSRK	SHARK, COW
0005	ATNA	TUNA, ALBACORE	0161	OSRK	SHARK, SIXGILL
0006	UTNA	TUNA, UNCLASSIFIED	0162	OSRK	SHARK, SEVENGILL
0007	OTNA	TUNA, ORIENTAL	0163	OSRK	SHARK, SWELL
0008	OTNA	TUNA, BIGEYE	0164	OSRK	SHARK, DUSKY
0009	BSJK	TUNA, BLACK SKIPJACK	0165	OSRK	SHARK, PACIFIC ANGEL
0010	OTNA	TUNA, ATLANTIC BLUEFIN OBS	0166	ORND	RATFISH
0011	OTNA	TUNA, LONGTAIL	0167	BSRK	SHARK, BLUE
0012	OTNA	TUNA, BLACKFIN	0168	OSRK	SHARK, SALMON
0019	OTNA	MACKEREL, BULLET	0169	OSRK	SHARK, HORN
0040	YLTL	YELLOWTAIL	0170	OSRK	RAY
0041	ORND	JACK, CREVALLE	0171	OSRK	RAY, BAT
0042	ORND	JACKS	0172	OSRK	RAY, PACIFIC ELECTRIC
0043	ORND	AMBERJACK, PACIFIC	0173	OSRK	STINGRAY
0050	UMCK	MACKEREL, UNCLASSIFIED	0174	OSRK	GUITARFISH, SHOVELNOSE
0051	PMCK	MACKEREL, PACIFIC	0175	OSRK	SKATE, UNCLASSIFIED
0052	ORND	SIERRA	0176	OSRK	SKATE, BIG
0055	JMCK	MACKEREL, JACK	0177	OSRK	SKATE, CALIFORNIA
0056	JMCK	MACKEREL, JACK LARGE	0178	OSRK	SKATE, THORNBACK
0057	ORND	WAHOO	0179	OSRK	SHARK, GRAY SMOOTHHOUND
0058	ORND	JACKS, NEW ZEALAND	0180	SMLT	SMELT
0080	ORND	BUTTERFISH, PACIFIC	0181	SMLT	GRUNION, CALIFORNIA
0081	ORND	PAMPANO, MEXICAN	0182	SMLT	SMELT, SURF
0091	SWRD	SWORDFISH	0184	SMLT	JACKSMELT
0092	ORND	MARLIN, STRIPED	0185	SMLT	SMELT, WHITEBAIT
0095	ORND	SAILFISH	0186	SMLT	TOPSMELT
0097	TSRK	SHARK, BIGEYE THRESHER	0187	SMLT	SMELT, NIGHT
0100	PSDN	SARDINE, PACIFIC	0188	ORND	EULACHON
0101	PSDN	SARDINE, JUVENILE	0190	SABL	SABLEFISH
0105	ORND	HERRING, ROUND	0195	LCOD	LINGCOD
0110	NANC	ANCHOVY, NORTHERN	0196	ORND	TOMCOD, PACIFIC
0111	OANC	ANCHOVY, DEEPBODIED	0197	PCOD	COD, PACIFIC
0113	OANC	ANCHOVY, SOUTHERN	0198	ORND	GRENADIERS
0121	PHRG	HERRING, PACIFIC	0200	UFLT	SOLE, UNCLASSIFIED
0130	CBRC	BARRACUDA, CALIFORNIA	0201	ARTH	FLOUNDER, ARROWTOOTH
0135	ORND	MULLET, STRIPED	0202	OFLT	SOLE, BIGMOUTH
0144	ORND	SENORITA	0203	RSOL	SOLE, ROCK
0145	ORND	SHEEPHEAD, CALIFORNIA	0204	OFLT	SOLE, FANTAIL

CALIFORNIA STATE/PACFIN MARKET CATEGORY CODE LIST (CONT.)

CAL CODE	PACFIN CODE	MARKET CATEGORY
0146	ORND	WRASSE, ROCK
0149	OSRK	SHARK, BLACK TIP
0150	USRK	SHARK, UNCLASSIFIED
0151	MSRK	SHARK, BONITO (MAKO)
0152	DSRK	SHARK, SPINY DOGFISH
0153	OSRK	SHARK, LEOPARD
0154	OSRK	SHARK, BROWN SMOOTHHOUND
0155	TSRK	SHARK, THRESHER
0220	UHLB	HALIBUT, UNCLASSIFIED
0221	PHLB	HALIBUT, PACIFIC
0222	CHLB	HALIBUT, CALIFORNIA
0225	SDAB	SANDDAB, UNCLASSIFIED
0226	SDAB	SANDDAB, LONGFIN
0227	SDAB	SANDDAB, PACIFIC
0228	SDAB	SANDDAB, SPECKLED
0230	OFLT	FLOUNDER, UNCLASSIFIED
0231	STRY	FLOUNDER, STARRY
0235	OFLT	TURBOT, CURLFIN
0236	OFLT	TURBOT, DIAMOND
0237	OFLT	TURBOT, C-O
0238	OFLT	TURBOT, HORNYHEAD
0239	OFLT	TURBOT, SPOTTED
0240	UFLT	TURBOT, UNCLASSIFIED
0245	ORCK	COWCOD
0246	ORCK	ROCKFISH, WHITEBELLY
0247	CNRY	ROCKFISH, CANARY
0248	ORCK	ROCKFISH, YELLOWEYE
0249	ORCK	ROCKFISH, VERMILLION
0250	URCK	ROCKFISH, UNCLASSIFIED
0251	ORCK	ROCKFISH, BLACK-&-YELLOW
0252	ORCK	ROCKFISH, BLACK
0253	BCAC	BOCACCIO
0254	CLPR	CHILIPEPPER
0255	ORCK	ROCKFISH, GREENSPOTTED
0256	ORCK	ROCKFISH, STARRY
0257	ORCK	ROCKFISH, STRIPED
0258	ORCK	ROCKFISH, CHINA
0259	YTRK	ROCKFISH, YELLOWTAIL
0260	ORND	SCULPIN
0261	ORND	CABEZON
0262	STHR	ROCKFISH, SHORTSPINE THORNYHEAD
0263	ORCK	ROCKFISH, GOPHER
0265	ORCK	ROCKFISH, RED
0267	ORCK	ROCKFISH, BROWN
0268	ORCK	ROCKFISH, ROSY
0269	WDOW	ROCKFISH, WIDOW
0270	SPRK	ROCKFISH, SPLITNOSE
0271	POP	PERCH, PACIFIC OCEAN
0205	SSOL	SOLE, SAND
0206	EGLS	SOLE, ENGLISH
0207	REX	SOLE, REX
0208	OFLT	SOLE, BUTTER
0209	PTRL	SOLE, PETRALE
0210	OFLT	SOLE, SLENDER
0211	DOVR	SOLE, DOVER
0212	OFLT	SOLE, TONGUE
0291	ORND	TRIGGERFISH
0292	ORND	MOLA, COMMON
0300	USMN	SALMON, UNCLASSIFIED
0301	CHUM	SALMON, CHUM
0302	CHNK	SALMON, KING OR CHINOOK
0303	PINK	SALMON, PINK
0304	COHO	SALMON, SILVER OR COHO
0316	STLH	STEELHEAD
0320	ORND	CATFISH, UNCLASSIFIED
0322	ORND	CATFISH, SQUARE TAIL
0324	ORND	SHAD, THREADFIN
0325	ORND	SHAD, AMERICAN
0326	RSHD	ROE, SHAD
0327	ORND	SHAD, BUCK
0335	OBAS	BASS, STRIPED
0345	ORND	CARP
0346	ORND	HARDHEAD
0347	OBAS	BASS, SPLITTAIL
0348	ORND	HITCH
0349	ORND	BLACKFISH
0361	ORND	STICKLEBACK, THREESPINE
0365	ORND	SQUAWFISH
0375	ORND	SUCKER
0400	WBAS	SEABASS, WHITE
0401	ORND	CIVACHE
0410	OBAS	SEABASS, TOTUAVA
0414	ORND	ROBALOS
0415	ORND	SNAPPER, MEXICAN
0420	OCRK	CROAKER
0421	OCRK	CROAKER, BLACK
0422	OCRK	CROAKER, SPOTFIN
0423	OCRK	CROAKER, YELLOWFIN
0426	ORND	CORBINA, CALIFORNIA
0427	ORND	CORVINA, SHORTFIN
0430	OBAS	GROUPER
0431	OBAS	CABRILLA, SPOTTED
0432	OBAS	GROUPER, BROOMTAIL
0435	WCRK	CROAKER, WHITE
0440	ORND	QUEENFISH
0445	ORND	FLYINGFISH, CALIFORNIA
0446	ORND	SAURY, PACIFIC

CALIFORNIA STATE/PACFIN MARKET CATEGORY CODE LIST (CONT.)

CAL CODE	PACFIN CODE	MARKET CATEGORY
0272	ORND	SCULPIN, PACIFIC STAGHORN
0273	ORND	SCULPIN, YELLOWCHIN
0275	OBAS	BASS, ROCK
0276	OBAS	BASS, SPOTTED SAND
0277	OBAS	BASS, KELP
0278	OBAS	BASS, BARRED SAND
0280	GBAS	BASS, GIANT SEA
0290	ORND	GREENLING, KELP
0467	ORND	OPAH
0470	ORND	STURGEON
0473	ORND	LIZARDFISH, CALIFORNIA
0475	ORND	OPALEYE
0476	ORND	NEEDLEFISH, CALIFORNIA
0477	ORND	BONEFISH
0478	ORND	HALFMOON
0479	ORND	BLACKSMITH
0480	ORND	SARGO
0481	ORND	DOLPHINFISH
0482	ORND	GARIBALDI
0483	ORND	MUDSUCKER, LONGJAW
0484	ORND	SALEMA
0485	ORND	MIDSHIPMAN, PLAINFIN
0486	ORND	GOBY, BLUEBANDED
0490	ORND	WHITEFISH, OCEAN
0491	ORND	KILLIFISH, CALIFORNIA
0495	PWHT	HAKE, PACIFIC
0501	ORND	KELPFISH, GIANT
0510	ORND	KELPFISHES
0550	ORND	SURFPERCH, UNCLASSIFIED
0551	ORND	SURFPERCH, BARRED
0552	ORND	SURFPERCH, BLACK
0553	ORND	SURFPERCH, REDTAIL
0554	ORND	SURFPERCH, SHINER
0556	ORND	SURFPERCH, WHITE
0557	ORND	SURFPERCH, WALLEYE
0558	ORND	SURFPERCH, RUBBERLIP
0559	ORND	SURFPERCH, PILE
0560	ORND	SURFPERCH, CALICO
0561	ORND	SURFPERCH, DWARF
0562	ORND	SURFPERCH, RAINBOW
0563	ORND	SURFPERCH, PINK
0601	ORND	KAHAWAI
0602	ORND	ZEBRAPERCH
0651	ORCK	ROCKFISH, OLIVE
0652	ORCK	ROCKFISH, GRASS
0653	ORCK	ROCKFISH, PINK
0654	ORCK	ROCKFISH, GREENSTRIPED
0655	ORCK	ROCKFISH, COPPER
0657	ORCK	ROCKFISH, FLAG
0450	EELS	EEL, UNCLASSIFIED
0451	EELS	EEL, BLENNY
0452	EELS	EEL, CALIFORNIA MORAY
0453	EELS	LAMPREY
0454	EELS	WOLF-EEL
0455	EELS	CUSK-EEL, SPOTTED
0457	ORND	HAGFISH
0465	ORND	PORGY, PACIFIC
0667	ORCK	ROCKFISH, BLACKGILL
0668	ORCK	ROCKFISH, STRIPETAIL
0669	ORCK	ROCKFISH, SPECKLED
0670	ORCK	ROCKFISH, SWORDSPINE
0671	ORCK	ROCKFISH, CALICO
0700	OABL	ABALONE, UNCLASSIFIED
0701	BABL	ABALONE, BLACK
0702	RABL	ABALONE, RED
0703	GABL	ABALONE, GREEN
0704	PABL	ABALONE, PINK
0705	WABL	ABALONE, WHITE
0706	OABL	ABALONE, THREADED
0707	OABL	ABALONE, PINTO
0708	OABL	ABALONE, NORTHERN GREEN
0709	OMSK	MISCELLANEOUS MOLLUSKS
0710	JSGD	SQUID, JUMBO
0711	MSQD	SQUID, MARKET
0712	OCTP	OCTOPUS
0718	SCLP	SCALLOP,ROCK
0719	SCLP	SCALLOP
0720	CLAM	CLAM, UNCLASSIFIED
0721	CLAM	CLAM, COMMON LITTLENECK
0722	CLAM	CLAM, PISMO
0723	CLAM	CLAM, SOFTSHELL
0725	CLAM	CLAM, RAZOR
0726	CLAM	CLAM, GAPER
0727	CLAM	CLAM, WASHINGTON
0728	CLAM	CLAM, CALIFORNIA JACKKNIFE
0729	OMSK	SEA SLUG
0730	CLAM	MUSSEL
0732	OMSK	SNAIL, SEA
0733	CLAM	CLAM, FRESHWATER
0735	CLAM	CLAM, PENCIL
0737	CLAM	CLAM, NORTHERN QUAHOG (BUTTER)
0738	OECH	STARFISH
0740	OSTR	OYSTER
0741	OSTR	OYSTER, EASTERN
0742	OSTR	OYSTER, NATIVE PACIFIC
0743	OSTR	OYSTER, PACIFIC GIANT
0744	OSTR	OYSTER, KUMAMOTO

CALIFORNIA STATE/PACFIN MARKET CATEGORY CODE LIST (CONT.)

CAL CODE	PACFIN CODE	MARKET CATEGORY	CAL CODE	PACFIN CODE	MARKET CATEGORY
0658	ORCK	TREEFISH	0745	OSTR	OYSTER, EUROPEAN FLAT
0660	ORCK	ROCKFISH, HONEYCOMB	0746	OMSK	SNAIL, BUBBLE
0661	ORCK	ROCKFISH, DARKBLOTCHED	0749	OMSK	SEA HARE
0662	ORCK	ROCKFISH, BRONZESPOTTED	0750	OECH	ECHINODERM
0663	ORCK	ROCKFISH, BANK	0751	OECH	SEA STAR
0664	ORCK	ROCKFISH, PINKROSE	0752	SURC	URCHIN, SEA
0665	ORCK	ROCKFISH, BLUE	0753	SURC	URCHIN, LYTECHINUS
0666	ORCK	ROCKFISH, SQUARESPOT	0760	SPNG	SPONGES
0769	MISC	INVERTEBRATES, COLONIAL	0860	MISC	CHITON, UNSPEC.
0771	MISC	CORAL, PURPLE	0899	RHLB	ROE, HALIBUT
0781	OMSK	SNAIL, FRESHWATER	0915	MISC	LANCELETS, AMPHIOXUS
0799	OMSK	MOLLUSK, MISCELLANEOUS	0916	MAML	PORPOISE
0800	DCRB	CRAB, DUNGENESS	0920	AMPH	FROG
0801	RCRB	CRAB, ROCK	0921	AMPH	FROG, BULL
0803	OCRB	CRAB, SPIDER	0930	RPTL	TURTLE
0804	KCRB	CRAB, KING	0931	RPTL	TERRAPIN
0807	OCRB	CRAB, PELAGIC RED	0950	KELP	KELP
0808	TCRB	CRAB, TANNER	0953	ALGA	ALGAE, MARINE
0810	OSHP	SHRIMP, BAY	0956	RCK1	ROCKFISH, GROUP
0811	OSHP	SHRIMP, GHOST			BOCCACIO/CHILI
0812	PSHP	SHRIMP, PINK (PAC. OCEAN)	0957	RCK2	ROCKFISH, GROUP BOLINA
0813	RPRW	PRAWN, RIDGEBACK	0958	RCK3	ROCKFISH, GROUP
0814	OSHP	SHRIMP, UNCLASSIFIED			DEEPWATER REDS
0815	SPRW	PRAWN, SPOT	0959	RCK4	ROCKFISH, GROUP REDS
0819	OSHP	SHRIMP, BRINE	0960	RCK5	ROCKFISH, GROUP SM. REDS
0820	LOBS	LOBSTER, CALIFORNIA SPINY	0961	RCK6	ROCKFISH, GROUP ROSEFISH
0825	CRST	CRAYFISH	0962	RCK7	ROCKFISH, GROUP GOPHER
0826	MISC	BARNACLES	0992	ANIF	ANIMAL FOOD
0830	MISC	SPIDERS, SEA	0997	ORND	MISCELLANEOUS TRAWL FISH
0840	MISC	TUNICATES	0999	ORND	MISCELLANEOUS FISH
0851	MISC	THEMISTE			

Updated - - 10/24/84 ddh

OREGON STATE/PACFIN MARKET CATEGORY CODE LIST

OREGON CODE	PACFIN CODE	GRADE	COND.	DISP.	MARKET CATEGORY
01	CHNK	L	R	H	SALMON, CHINOOK LG., RD.
01D	CHNK	L	D	H	SALMON, CHINOOK LG. DR.
01H	CHNK	L	H	H	SALMON, CHINOOK LG. DR. HEAD OFF
01J	CHNK	U	R	H	SALMON, CHINOOK JACKS RD.
01P	CHNK	L	D	H	SALMON, CHINOOK LG. DR. MWT
01T	CHNK	U	R	H	SALMON, CHINOOK TULES RD.
02	CHNK	M	R	H	SALMON, CHINOOK MD.(7-10) RD.
02D	CHNK	M	D	H	SALMON, CHINOOK MD. DR.
02H	CHNK	M	H	H	SALMON, CHINOOK MD. DR. HEAD OFF
02P	CHNK	M	D	H	SALMON, CHINOOK MD. DR. MWT
O3	CHNK	S	R	H	SALMON, CHINOOK SM. RD.
03D	CHNK	S	D	H	SALMON, CHINOOK SM. DR.
03H	CHNK	S	H	H	SALMON, CHINOOK SM. DR. HEAD OFF
03P	CHNK	S	D	H	SALMON, CHINOOK SM. DR. MWT
O4D	CHNK	U	D	H	SALMON, CHINOOK WHITE DR.
04H	CHNK	U	H	H	SALMON, CHINOOK WHITE DR. HEAD OFF
O5	CHNK	U	R	H	SALMON, MIXED SIZE RD.
05D	CHNK	U	D	H	SALMON, MIXED SIZE DR.
O5H	CHNK	U	H	H	SALMON, MIXED SIZE DR. HEAD OFF
06	ORND	U	U	H	TROUT, CUTTHROAT
07	SOCK	U	R	H	SALMON, SOCKEYE RD.
07D	SOCK	U	D	H	SALMON, SOCKEYE DR.
07H	SOCK	U	H	H	SALMON, SOCKEYE DR. HEAD OFF
O8	STLH	U	U	H	STEELHEAD
08J	STLH	U	U	H	STEELHEAD, JACKS
O9	COHO	U	R	H	SALMON, COHO RD.
09D	COHO	M	D	H	SALMON, COHO MED. DR.
09H	COHO	M	H	H	SALMON, COHO MED. HEAD OFF
09J	COHO	U	R	H	SALMON, COHO JACKS RD.
09T	COHO	U	R	H	SALMON, COHO TULES RD. (REDSIDES)
10	COHO	L	R	H	SALMON, COHO LG. RD.
10D	COHO	L	D	H	SALMON, COHO LG. DR.
10H	COHO	L	H	H	SALMON, COHO LG. DR. HEAD OFF
11	PINK	U	R	H	SALMON, PINK RD.
11D	PINK	U	D	H	SALMON, PINK DR.
11H	PINK	U	H	H	SALMON, PINK DR. HEAD OFF
12	COHO	S	R	H	SALMON, COHO SM. RD.
12D	COHO	S	D	H	SALMON, COHO SM. DR.
12H	COHO	S	H	H	SALMON, COHO SM. DR. HEAD OFF
13	CHUM	U	R	H	SALMON, CHUM RD.
13D	CHUM	U	D	H	SALMON, CHUM DR.
13H	CHUM	U	H	H	SALMON, CHUM DR. HEAD OFF
14	COHO	U	R	H	SALMON, COHO MIXED SIZES RD.
14D	COHO	U	D	H	SALMON, COHO MIXED SIZES DR.
14H	COHO	U	H	H	SALMON, COHO MIXED SIZES DR.HD.OFF
15	CLAM	U	U	H	CLAM, SOFT-SHELL
16	CLAM	U	U	H	NORTHERN QUAHOG (BUTTER)
17	CLAM	U	U	H	CLAM, COMMON LITTLENECK
18	CLAM	U	U	H	CLAM, GAPER

OREGON STATE/PACFIN MARKET CATEGORY CODE LIST (CONT.)

OREGON CODE	PACFIN CODE	GRADE	COND.	DISP.	MARKET CATEGORY
19	CLAM	U	U	H	CLAM, MACOMA IRIS
20	CRST	U	U	H	CRAYFISH
21	CLAM	U	U	H	CLAM, RAZOR
22	CLAM	U	U	H	CLAM, COCKLE
23	CLAM	U	U	H	MUSSELS
24	OSHP	U	U	H	SHRIMP, GHOST
25	PCOD	U	U	H	COD, PACIFIC (TRUE)
27	OCOD	U	U	H	COD, MISC.
28	PTRL	U	U	H	SOLE, PETRALE
28P	PTRL	U	U	H	SOLE, PETRALE MWT
30	SSOL	U	U	H	SOLE, SAND
31	OFLT	U	U	H	SOLE, FLATHEAD
32	EGLS	U	U	H	SOLE, ENGLISH
33	REX	U	U	H	SOLE, REX
34	DOVR	U	U	H	SOLE, DOVER
34P	DOVR	U	U	H	SOLE, DOVER MWT
35	RSOL	U	U	H	SOLE, ROCK
36	OFLT	U	U	H	SOLE, SLENDER
37	URCK	U	U	H	ROCKFISH, UNCLASSIFIED
37P	URCK	U	U	H	ROCKFISH (PELAGIC TRAWL)
38	OFLT	U	U	H	TURBOT (FRENCH/LEMON/CURLFIN SOLE)
39	UFLT	U	U	H	SOLE, UNCLASSIFIED
40	STRY	U	U	H	FLOUNDER, STARRY
40P	STRY	U	U	H	FLOUNDER, STARRY (PELAGIC TRAWL)
41	OFLT	U	U	H	SOLE, BUTTER
43	OSRK	U	U	H	SKATE
44	OSRK	U	U	H	RAY
45	LCOD	U	U	H	LINGCOD
45P	LCOD	U	U	H	LINGCOD (PELAGIC TRAWL)
46	LCOD	U	D	H	LINGCOD, DR.
47	SABL	U	R	H	SABLEFISH, RD.
47L	SABL	L	R	H	SABLEFISH, LG. RD.
47M	SABL	M	R	H	SABLEFISH, MD. RD.
47P	SABL	U	R	H	SABLEFISH, RD. (PELAGIC TRAWL)
47S	SABL	S	R	H	SABLEFISH, SM. RD.
47X	SABL	X	R	H	SABLEFISH, EXTRA SM., RD.
48	SABL	U	D	H	SABLEFISH, DR.
48L	SABL	L	D	H	SABLEFISH, LG. DR.
48M	SABL	M	D	H	SABLEFISH, MD. DR.
48P	SABL	U	D	H	SABLEFISH, DR. (PELAGIC TRAWL)
48S	SABL	S	D	H	SABLEFISH, SM. DR.
48X	SABL	X	D	H	SABLEFISH, EXTRA SM., DR.
49	PHRG	U	U	H	HERRING, PACIFIC
50	ARTH	U	U	H	FLOUNDER, ARROWTOOTH
54	USRK	U	U	H	SHARK, UNCLASSIFIED
54P	USRK	U	U	H	SHARK (PELAGIC TRAWL), UNCLASSIFIED
55	PSHP	U	U	H	SHRIMP, PINK (PACIFIC OCEAN)
56	WBAS	U	U	H	SEABASS, WHITE
57	UMCK	U	U	H	MACKEREL, UNCLASSIFIED

OREGON STATE/PACFIN MARKET CATEGORY CODE LIST (CONT.)

OREGON CODE	PACFIN CODE	GRADE	COND.	DISP.	MARKET CATEGORY
58	SDAB	U	U	H	SANDDAB, PACIFIC
59	ORND	U	U	H	SCRAP
59P	ORND	U	U	H	SCRAP (PELAGIC TRAWL)
60	SSRK	U	U	H	SHARK, SOUPFIN
61	DSRK	U	U	H	SHARK, SPINY DOGFISH
61P	DSRK	U	U	H	SHARK, SPINY DOGFISH (PELAGIC TRWL)
62	PHLB	U	U	H	HALIBUT, PACIFIC
63D	PHLB	U	D	H	HALIBUT, DR.
63H	PHLB	U	H	H	HALIBUT, DR. HEAD OFF
65	ORND	U	U	H	MISCELLANEOUS FISH
66	EELS	U	U	H	WOLF-EEL
67	EELS	U	U	H	LAMPREY
68	OCTP	U	U	H	OCTOPUS
69	PWHT	U	U	H	PACIFIC WHITING (HAKE)
70	ORND	U	U	H	STURGEON, WHITE
71	PWHT	U	R	H	PACIFIC WHITING (HAKE), RD.
71P	PWHT	U	R	H	PACIFIC WHITING, RD.(PELAGIC TRWL)
72	POP	U	U	H	PERCH, PACIFIC OCEAN
72P	POP	U	U	H	PERCH, PACIFIC OCEAN(PELAGIC TRWL)
73	NANC	U	U	H	ANCHOVY, NORTHERN
74	ORND	U	U	H	GREEN STURGEON
75	ORND	U	U	H	SURFPERCH, WALLEYE
76	ORND	U	U	H	CABEZON
77	SMLT	U	U	H	SMELT
78	SCLP	U	U	H	SCALLOP, WEATHERVANE
78D	SCLP	U	D	H	SCALLOP, WEATHERVANE DR.
79	ORND	U	U	H	SHAD, MIXED (COLUMBIA)
80	ORND	U	U	H	SHAD, BUCK (COLUMBIA)
81	ORND	U	U	H	SHAD, BUCK
82	RSHD	U	U	H	ROE, SHAD (COLUMBIA)
83	RSHD	U	U	H	ROE, SHAD
84	CLAM	U	S	H	CLAM, RAZOR SH.
85	DCRB	U	U	H	CRAB, DUNGENESS (BAY)
86	DCRB	U	U	H	CRAB, DUNGENESS
87	RCRB	U	U	H	CRAB, ROCK
88	ANIF	U	U	A	ANIMAL FOOD
89	MSQD	U	U	H	SQUID
90	TCRB	U	U	H	CRAB, TANNER
91	ATNA	U	U	H	TUNA, ALBACORE
93	BSJK	U	U	H	TUNA, SKIPJACK, BLACK
94	YTNA	U	U	H	TUNA, YELLOWFIN
95	STNA	U	U	H	TUNA, SKIPJACK
96	BTNA	U	U	H	TUNA, BLUEFIN
97	OSHP	U	U	H	SHRIMP, BRINE
98	ORND	U	U	H	PERCH, UNCLASSIFIED
99Z	ORND	U	U	H	OUT-OF-STATE

2/21/84 ddh

WASHINGTON STATE/PACFIN MARKET CATEGORY CODE LIST

WAS CODE	PACFIN CODE	DISP	MARKET CATEGORY	WAS CODE	PACFIN CODE	DISP	MARKET CATEGORY
001	CHNK	H	SALMON, CHINOOK	224	NANC	H	ANCHOVY, NORTHERN
002	CHUM	H	SALMON, CHUM	231	LCOD	H	LINGCOD
003	PINK	H	SALMON, PINK	241	PCOD	H	COD, PACIFIC
004	COHO	H	SALMON, COHO	242	ORND	H	TOMCOD, PACIFIC
005	SOCK	H	SALMON, SOCKEYE	243	ORND	H	POLLACK
006	STLH	H	STEELHEAD	244	PWHT	H	HAKE, PACIFIC
007	USMN	H	SALMON, AQUACULTURE	245	ORND	H	GREENLING, KELP
008	USMN	H	SALMON, UNCLASSIFIED	251	URCK	H	ROCKFISH, UNCLASSIFIED
009	USMN	H	SALMON, UNCLASSIFIED	252	ORCK	H	ROCKFISH, BLACK
010	ORND	H	STURGEON	253	ORCK	H	ROCKFISH, RED
011	ORND	H	STURGEON, WHITE	254	POP	H	PERCH, PACIFIC OCEAN
012	ORND	H	STURGEON, GREEN	255	URCK	H	ROCKFISH, UNCLASSIFIED
021	ORND	H	SHAD, BUCK	256	URCK	H	ROCKFISH, UNCLASSIFIED
022	ORND	H	SHAD, AMERICAN	257	URCK	H	ROCKFISH, UNCLASSIFIED
023	RSHD	H	ROE, SHAD	261	ORND	H	PERCH, UNCLASSIFIED
031	SMLT	H	SMELT, COL. RIVER	262	ORND	H	PERCH, BLUE OR STRIPED
101	ATNA	H	TUNA, ALBACORE	263	ORND	H	PERCH, DUSKY
102	BTNA	H	TUNA, BLUEFIN	264	ORND	H	PERCH, SILVER
103	YTNA	H	TUNA, YELLOWFIN	265	ORND	H	SEAPERCH, WHITE
104	STNA	H	TUNA, SKIPJACK	270	ORND	H	CARP
105	JMCK	H	JACK MACKEREL	275	ORND	H	RATFISH
111	UMCK	H	MACKEREL, UNCLASSIFIED	276	ORND	H	SCULPIN
112	WBAS	H	WHITE SEA BASS	281	USRK	H	SHARK, UNCLASSIFIED
114	PBNT	H	PACIFIC BONITO	282	BSRK	H	SHARK, BLUE
121	PHRG	H	PACIFIC HERRING	283	DSRK	H	SHARK, SPINY DOGFISH
122	PHRG	H	PACIFIC HERRING	284	OSRK	H	SHARK, MUD
123	ORND	H	EULACHON	285	SSRK	H	SHARK, SOUPFIN
124	NANC	H	ANCHOVY, NORTHERN	286	OSRK	H	SHARK, BASKING
131	NANC	H	ANCHOVY, NORTHERN	291	OSRK	H	SKATE, UNCLASSIFIED
141	SMLT	H	SMELT, SURF	299	REDC	R	FISH HOUSE OFFAL
142	SMLT	H	SMELT, NIGHT	300	ORND	R	SUCKER, REDC.
151	ORND	H	EULACHON	301	ORND	R	HALIBUT, PACIFIC (MIXED SIZES), REDC.
201	PHLB	H	HALIBUT, PACIFIC				
202	UFLT	H	SOLE, UNCLASSIFIED	302	UFLT	R	SOLE, UNCLASSIFIED REDC.
203	OFLT	H	SOLE, BUTTER	303	OFLT	R	SOLE, BUTTER REDC.
204	OFLT	H	SOLE, CO	304	OFLT	R	SOLE, CO REDC.
205	DOVR	H	SOLE, DOVER	305	DOVR	R	SOLE, DOVER REDC.
206	EGLS	H	SOLE, ENGLISH	306	EGLS	R	SOLE, ENGLISH REDC.
207	PTRL	H	SOLE, PETRALE	307	PTRL	R	SOLE, PETRALE REDC.
208	REX	H	SOLE, REX	308	REX	R	SOLE, REX REDC.
209	RSOL	H	SOLE, ROCK	309	RSOL	R	SOLE, ROCK REDC.
210	SSOL	H	SOLE, SAND	310	SSOL	R	SOLE, SAND REDC.
211	SDAB	H	SANDDAB, UNCLASSIFIED	311	SDAB	R	SANDDAB, UNCLASSIFIED REDC.
212	STRY	H	FLOUNDER, STARRY	312	STRY	R	FLOUNDER, STARRY REDC.
213	ARTH	H	FLOUNDER, ARROWTOOTH	313	ARTH	R	FLOUNDER, ARROWTOOTH REDC.
215	ORND	H	MISCELLANEOUS FISH	315	ORND	R	MISCELLANEOUS FISH, REDC.
221	SABL	H	SABLEFISH	321	SABL	R	SABLEFISH, REDC.
222	RHRG	H	SAC ROE, HERRING				
223	ORND	H	EULACHON				

WASHINGTON STATE/PACFIN MARKET CATEGORY CODE LIST (CONT.)

WAS CODE	PACFIN CODE	DISP	MARKET CATEGORY
322	PHRG	R	HERRING, PACIFIC REDC.
323	ORND	R	EULACHON, REDC.
324	NANC	R	ANCHOVY, NORTHERN REDC.
331	LCOD	R	LINGCOD, REDC.
341	PCOD	R	COD, PACIFIC REDC.
342	ORND	R	TOMCOD, PACIFIC REDC.
343	ORND	R	POLLACK, REDC.
344	PWHT	R	PACIFIC WHITING (HAKE), REDC.
345	ORND	R	GREENLING, KELP REDC.
351	URCK	R	ROCKFISH, UNCLASSIFIED REDC.
352	ORCK	R	ROCKFISH, BLACK REDC.
353	ORCK	R	ROCKFISH, RED REDC.
354	POP	R	PERCH, PAC. OCEAN REDC.
355	URCK	R	ROCKFISH, UNCLASS. REDC.
356	URCK	R	ROCKFISH, UNCLASS. REDC.
357	URCK	R	ROCKFISH, UNCLASS. REDC.
361	ORND	R	PERCH, UNCLASS. REDC.
362	ORND	R	PERCH, BLUE OR STRIPED REDC.
363	ORND	R	PERCH, DUSKY REDC.
364	ORND	R	PERCH, SILVER REDC.
365	ORND	R	SEAPERCH, WHITE REDC.
370	ORND	R	CARP, REDC.
375	ORND	R	RATFISH, REDC.
376	ORND	R	SCULPIN, REDC.
381	USRK	R	SHARK, UNSPECIFIED REDC.
382	BSRK	R	SHARK, BLUE REDC.
383	DSRK	R	SHARK, SPINY DOGFISH REDC.
384	OSRK	R	SHARK, MUD REDC.
385	SSRK	R	SHARK, SOUPFIN REDC.
386	OSRK	R	SHARK, BASKING REDC.
391	OSRK	R	SKATE, UNCLASS. REDC.
399	REDC	R	FISH HOUSE OFFAL
400	ORND	A	SUCKER, ANIF.
401	PHLB	A	HALIBUT, PACIFIC (MIXED SIZES) ANIF.
402	UFLT	A	SOLE, UNCLASSIFIED ANIF.
403	OFLT	A	SOLE, BUTTER ANIF.
404	OFLT	A	SOLE, CO ANIF.
405	DOVR	A	SOLE, DOVER ANIF.
406	EGLS	A	SOLE, ENGLISH ANIF.
407	PTRL	A	SOLE, PETRALE ANIF.
408	REX	A	SOLE, REX ANIF.
409	RSOL	A	SOLE, ROCK ANIF.
410	SSOL	A	SOLE, SAND ANIF.
411	SDAB	A	SANDDAB, UNCLASS. ANIF.
413	ARTH	A	FLOUNDER,ARROWTOOTH ANIF.
415	ORND	A	MISCELLANEOUS FISH, ANIF.
421	SABL	A	SABLEFISH, RD. ANIF.
422	PHRG	A	HERRING, PACIFIC ANIF.
423	ORND	A	EULACHON, ANIF.
424	NANC	A	ANCHOVY, NORTHERN ANIF.
431	LCOD	A	LINGCOD, ANIF.
441	PCOD	A	COD, PACIFIC ANIF.
442	ORND	A	TOMCOD, PACIFIC ANIF.
443	ORND	A	POLLACK, ANIF.
444	PWHT	A	PACIFIC WHITING (HAKE), ANIF.
445	ORND	A	GREENLING, KELP ANIF.
451	URCK	A	ROCKFISH, UNCLASS. ANIF.
452	ORCK	A	ROCKFISH, BLACK ANIF.
453	ORCK	A	ROCKFISH, RED ANIF.
454	POP	A	PERCH, PAC. OCEAN ANIF.
455	URCK	A	ROCKFISH, UNCLASS. ANIF.
456	URCK	A	ROCKFISH, UNCLASS. ANIF.
457	URCK	A	ROCKFISH, UNCLASS. ANIF.
461	ORND	A	PERCH, UNCLASS. ANIF.
462	ORND	A	PERCH, BLUE OR STRIPED ANIF.
463	ORND	A	PERCH, DUSKY ANIF.
464	ORND	A	PERCH, SILVER ANIF.
465	ORND	A	SEAPERCH, WHITE ANIF.
470	ORND	A	CARP, ANIF.
475	ORND	A	RATFISH, ANIF.
476	ORND	A	SCULPIN, ANIF.
481	USRK	A	SHARK, UNCLASS. ANIF.
482	BSRK	A	SHARK, BLUE ANIF.
483	DSRK	A	SHARK,SPINY DOGFISH ANIF.
484	OSRK	A	SHARK, MUD ANIF.
485	SSRK	A	SHARK, SOUPFIN ANIF.
486	OSRK	A	SHARK, BASKING ANIF.
491	OSRK	A	SKATE, UNCLASS. ANIF.
501	CLAM	H	CLAM
502	CLAM	H	CLAM, WASHINGTON
503	CLAM	H	CLAM, COCKLE
504	CLAM	H	CLAM, GAPER
505	CLAM	H	CLAM, GEODUCK
506	CLAM	H	CLAM, COMMON LITTLENECK
508	CLAM	H	CLAM, RAZOR
509	CLAM	H	CLAM, PACIFIC HARD
510	CLAM	H	CLAM, SOFTSHELL
511	MUSS	H	MUSSEL
521	OSTR	H	OYSTER, EASTERN
522	OSTR	H	OYSTER, NATIVE PACIFIC
523	OSTR	H	OYSTER, PACIFIC GIANT

WASHINGTON STATE/PACFIN MARKET CATEGORY CODE LIST (CONT.)

WAS CODE	PACFIN CODE	DISP	MARKET CATEGORY	WAS CODE	PACFIN CODE	DISP	MARKET CATEGORY
412	STRY	A	FLOUNDER, STARRY ANIF.	524	OSTR	H	OYSTER, KUMAMOTO
531	SCLP	H	SCALLOP	571	OSHP	H	SHRIMP
535	BABL	H	ABALONE, BLACK	572	OSHP	H	SHRIMP, COONSTRIPE
536	RABL	H	ABALONE, RED	573	OSHP	H	SHRIMP, SPOT
541	OCTP	H	OCTOPUS	574	OSHP	H	SHRIMP, SIDE STRIPED
551	MSQD	H	SQUID	575	PSHP	H	SHRIMP, PINK
561	DCRB	H	CRAB, DUNGENESS	581	CRST	H	CRAYFISH
562	KCRB	H	CRAB, KING	591	OECH	H	SEA CUCUMBER
563	RCRB	H	CRAB, ROCK	595	SURC	H	SEA URCHIN

For the processing of 1983 data, a new code was added. THDS, for Thornyheads Sebastolobus is now an acceptable code.

APPENDIX B

CALIFORNIA STATE/PACFIN PORT CODE LIST

CAL CODE	PACFIN CODE	NAME	CAL CODE	PACFIN CODE	NAME
000	EAS	EAST OF CALIFORNIA	252	ONC	COTTONWOOD
100	NOR	NORTH OF CALIFORNIA	253	ONC	ROUGH READY
201	CRS	CRESCENT CITY	254	ONC	TAHOE KEYS
202	ODN	REQUA	255	ONC	CARLOTTA
203	ODN	SMITH RIVER	256	ONC	ORANGEVALE
204	OHB	ORICK	257	ONC	OROVILLE
205	ONC	YREKA	258	ONC	CITRUS HEIGHTS
206	ONC	CHESTER	259	ONC	CONCORD
207	ONC	CENTERVILLE	260	ONC	AUBURN
208	ONC	BLUE LAKE	261	ONC	OCCIDENTAL
209	ONC	CRANNELL	262	ONC	VACAVILLE
210	ODN	KLAMATH	263	ONC	WHITEHORN
211	ALB	ALBION	264	ONC	LOS MOLINOS
212	OHB	ARCATA	265	ONC	ROSEVILLE
213	OMD	POINT ARENA	266	ONC	FAIRFIELD
214	ONC	FERNDALE	267	ONC	GALT
215	OHB	SHELTER COVE	268	OCC	FREEDOM
216	ONC	FIELDBROOK	269	ONC	CORNING
217	ERK	FIELDS LANDING	270	ONC	WEAVERVILLE
218	ONC	SCOTIA	271	ONC	ORLAND
219	OHB	HUMBOLDT	272	ONC	WEED
220	ERK	EUREKA	273	ONC	WILLOWS
221	ONC	FORTUNA	274	ONC	HONEYDEW
222	OMD	ELK	275	ONC	WILLITS
223	BRG	FORT BRAGG	276	ONC	ARBUCKLE
224	ONC	LOLETA	301	ONC	SONORA
225	ONC	RUTH	302	ONC	DIXON
226	OMD	CASPAR	303	ONC	CAMP CONNELL
227	OMD	LITTLE RIVER	304	ONC	DANVILLE
228	OMD	MENDOCINO	305	ONC	WEST SACRAMENTO
229	ONC	FORT DICK	306	ONC	PLACERVILLE
230	ONC	GARBERVILLE	306	ONC	PLEASANT HILL
231	TRN	TRINIDAD	308	ONC	PLEASANTON
232	ONC	MIRANDA	309	ONC	SMARTSVILLE
234	ONC	MCKINLEYVILLE	310	ONC	OLIVEHURST
235	OHB	MOONSTONE BEACH	311	ONC	GUSTINE
236	ONC	BAYSIDE	312	ONC	TAHOE CITY
237	ONC	WEOTT	313	ONC	GLENN
238	ONC	THORN	314	ONC	WALNUT CREEK
239	ONC	PETROLIA	315	ONC	MARYSVILLE
240	OMD	ALMANOR	316	ONC	RIPON

CALIFORNIA STATE/PACFIN PORT CODE LIST (CONT.)

CAL CODE	PACFIN CODE	NAME	CAL CODE	PACFIN CODE	NAME
243	ONC	UKIAH	317	ONC	FAIR OAKS
244	ONC	REDDING	318	ONC	BYRON
245	ONC	RED BLUFF	319	ONC	DAVIS
246	OHB	KING SALMON	320	ONC	TURLOCK
247	ONC	CLOVERDALE	321	ONC	SNELLING
249	ONC	BIEBER	322	ONC	FREEPORT
250	ONC	MCCLOUD	323	ONC	BRENTWOOD
251	ONC	FALL RIVER MILLS	324	ONC	BETHEL ISLAND
325	ONC	SUISUN CITY	393	ONC	RIO LINDA
326	ONC	MONTEZUMA SLOUGH	394	ONC	LEE VINING
327	ONC	NICE	395	ONC	NICOLAUS
328	ONC	DENVERTON	396	ONC	EL DORADO HILLS
329	ONC	BIRDS LANDING	397	ONC	YOLO
330	ONC	SACRAMENTO	398	ONC	CORDELIA
331	ONC	THREE MILE SLOUGH	401	ONC	FREMONT
332	ONC	STEAMBOAT SLOUGH	402	ONC	ALAMO
337	ONC	WOODBRIDGE	403	ONC	LOS GATOS
338	ONC	LATHROP	404	ONC	FORREST KNOLLS
339	ONC	OLD RIVER	405	ONC	SAINT HELENA
341	OSF	BENICIA	406	ONC	MONTEVISTA
342	OSF	COLLINSVILLE	407	ONC	ROHNERT PARK
343	ONC	COURTLAND	408	ONC	GREENBRAE
345	OSF	PITTSBURG	409	OSF	FOSTER CITY
346	ONC	LOCKE	410	OSF	BURLINGAME
347	ONC	LODI	411	OSF	LOS ALTOS
348	OSF	MARTINEZ	412	OSF	GLEN COVE
349	ONC	ISLETON	413	ONC	LIVERMORE
350	ONC	BRYTE	414	OSF	SAN BRUNO
351	ONC	RIO VISTA	415	ONC	NICASIO
352	ONC	STOCKTON	416	ONC	YOUNTVILLE
354	ONC	WALNUT GROVE	419	ONC	SONOMA
356	OSF	ANTIOCH	420	ONC	GUERNEVILLE
357	OSF	CROCKETT	422	ONC	EL SOBRANTE
358	ONC	LAKEPORT	423	OSM	MUIR BEACH
359	ONC	ACAMPO	424	ONC	TIMBER COVE
360	OSF	ANTIOCH BRIDGE	425	OSF	EMERYVILLE
361	ONC	CLEAR LAKE	426	ONC	KENTFIELD
362	ONC	BRODERICK	427	OMD	ANCHOR BAY
363	ONC	CLARKSBURG	428	ONC	EL CERRITO
364	ONC	ELKGROVE	429	ONC	NAPA
365	ONC	COLUSA	430	OSF	SAN LEANDRO
366	ONC	KNIGHTS LANDING	431	OSF	MILL VALLEY
367	OSF	PORT COSTA	432	ONC	LAFAYETTE
369	ONC	VERONA	434	ONC	MOUNTAIN VIEW
370	ONC	PATTERSON	435	ONC	HEALDSBURG
371	ONC	LUCERNE	436	ONC	HAYWARD
372	ONC	MIDDLE RIVER	437	OSM	DRAKES BAY
373	ONC	GRIDLEY	438	ONC	SUNNYVALE
374	ONC	YUBA CITY	439	OSF	PACIFICA

CALIFORNIA STATE/PACFIN PORT CODE LIST (CONT.)

CAL CODE	PACFIN CODE	NAME	CAL CODE	PACFIN CODE	NAME
376	ONC	MODESTO	440	SF	SAN FRANCISCO
377	ONC	UPPER LAKE	441	OSM	DILLON BEACH
378	ONC	TRACY	442	OSF	REDWOOD CITY
379	ONC	MANTECA	443	ONC	MOSS BEACH
385	OSD	OCEAN BEACH	444	ONC	SAN CARLOS
387	ONC	OAKLEY	445	OSF	MARTINS BEACH
390	ONC	WOODLAND	446	ONC	CAMPBELL
391	ONC	MONO LAKE	447	OSM	STEWARTS POINT
449	OSF	ALVISO	505	ONC	LOS BANOS
450	OSF	PINOLE	506	OCC	FELTON
451	OSF	RODEO	507	OCC	SAN JUAN BAUTISTA
452	PRN	PRINCETON	508	OCC	VISALIA
453	OSF	VALLEJO	509	OCC	LINDSAY
454	ONC	SAN JOSE	510	OCC	OAKHURST
455	OSF	CHINA CAMP	511	OCC	BIG SUR
457	ONC	NOVATO	512	OCC	SAN MIGUEL
458	ONC	PEDRO VALLEY	513	OCC	PASO ROBLES
459	ONC	PETALUMA	514	OCC	COALINGA
462	OSM	MARSHALL	549	OCM	FORT ORD
463	OSF	MCNEARS POINT	550	MNT	MONTEREY
464	OAK	OAKLAND	552	ONC	GILROY
465	OSF	SAN MATEO	553	ONC	MORGAN HILL
466	OSF	SAN QUENTIN	556	OCC	PIXLEY
468	ONC	SAN RAPHAEL	557	OCC	MADERA
469	SLT	SAUSALITO	558	OCC	FRESNO
470	OSF	SOUTH SAN FRANCISCO	559	OCC	CHOWCHILLA
471	OSF	ALAMEDA	560	ONC	DOS PALOS
472	OSF	BERKELEY	581	OCC	HOLLISTER
473	BDO	BODEGA BAY	584	OCC	LUCIA
474	OSM	INVERNESS	585	OCM	PEBBLE BEACH
475	ONC	SANTA ROSA	586	OCM	POINT LOBOS
476	RYS	POINT REYES	587	OCM	PACIFIC GROVE
477	TML	TOMALES BAY	588	OCM	SEASIDE
478	OSF	RICHMOND	589	OCM	CARMEL
479	OSF	PIGEON POINT	590	OCC	SALINAS
481	OSF	POINT MONTARA	591	OCC	CAPITOLA
482	OSF	PESCADERO	592	MOS	MOSS LANDING
483	OSF	POINT SAN PEDRO	593	CRZ	SANTA CRUZ
484	OSF	ALBANY	594	OCC	WATSONVILLE
485	OSF	FARALLONE ISLAND	596	OCM	DAVENPORT
486	OSM	MILLERTON	598	OCM	MARINA
487	OSM	BOLINAS	599	OCM	APTOS
488	OSM	MARCONI	601	OCC	ARROYO GRANDE
489	OSM	JENNER	602	AVL	AVILA
490	OSM	HAMLET	603	OSL	CAYUCOS
491	OSF	CORTE MADERA	604	OBV	GAVIOTA
492	ONC	SEBASTOPOL	605	HNM	PORT HUENEME
494	ONC	PALO ALTO	606	MRO	MORRO BAY
495	ONC	CALIFORNIA CITY	607	OSL	OCEANO

CALIFORNIA STATE/PACFIN PORT CODE LIST (CONT.)

CAL CODE	PACFIN CODE	NAME	CAL CODE	PACFIN CODE	NAME
496	OSF	TIBURON	608	OXN	OXNARD
497	OSM	STINSON BEACH	609	OSC	SAN LUIS OBISPO
498	OSF	ROCKAWAY BEACH	610	OSL	PISMO BEACH
499	ONC	WINDSOR	611	SB	SANTA BARBARA
501	ONC	CERES	612	OSC	SANTA MARIA
502	OCC	SOQUEL	613	OBV	VENTURA
503	OCC	KINGSBURG	614	OBV	GOLETA
504	OCC	CLOVIS	615	OSL	SAN SIMEON
616	OSC	SUMMERLAND	729	OLA	MALIBU
618	OSC	GUADALUPE	730	OSC	TORRANCE
619	OBV	CONCEPTION	733	OLA	CATALINA ISLAND
620	OBV	POINT ARGUELLO	734	OSD	SAN CLEMENTE ISLAND
623	OBV	SANTA CRUZ ISLAND	736	OSC	LOS ALAMITOS
628	OBV	POINT MUGU	739	OLA	SUNSET BEACH
629	OSL	SHELL BEACH	741	OLA	AVALON
630	OBV	RINCON	742	OLA	REDONDO BEACH
631	OCC	NIPOMO	743	OLA	LONG BEACH
632	OCC	CAMBRIA	744	OLA	LOS ANGELES
634	OBV	SOLROMAR	745	TRM	TERMINAL ISLAND
635	OBV	CARPENTERIA	746	WLM	WILMINGTON
638	OCC	GROVER CITY	747	OLA	SANTA MONICA
639	OSC	LOMPOC	748	NWB	NEWPORT BEACH
640	OSC	SIMI	749	OLA	LAGUNA
641	OCC	PORTERVILLE	750	OSC	WEST LOS ANGELES
642	OCC	DELANO	751	OLA	TOPANGA CANYON
643	OCC	BAKERSFIELD	752	OLA	OCEAN PARK
644	OCC	KERNVILLE	753	OLA	VENICE
645	OSC	SOLVANG	754	OSC	ELSINORE
646	OCC	TULARE	755	OSC	NORCO
647	OCC	SHAFTER	756	OLA	HERMOSA BEACH
648	OSL	BAYWOOD PARK	757	OLA	POINT DUME
649	OCC	OILDALE	759	OSC	COSTA MESA
650	OSC	OJAI	760	OLA	SEAL BEACH
651	OSC	WESTLAKE VILLAGE	762	OLA	MANHATTAN BEACH
652	OCC	LAKE ISABELLA	763	OSC	ALHAMBRA
653	OCC	ATASCADERO	764	OLA	BALBOA
654	OCC	RIDGECREST	765	OLA	CORONA DEL MAR
655	OSC	SANTA PAULA	766	OLA	SAN CLEMENTE
656	OCC	TAFT	767	DNA	DANA POINT
657	OCC	MOJAVE	768	OLA	HUNTINGTON BEACH
701	OSC	GLENDALE	769	OSC	RIVERSIDE
702	OSC	SOUTH GATE	770	SP	SAN PEDRO
703	OSC	LANCASTER	771	OSC	SANTA ANA
704	OSC	FOUNTAIN VALLEY	772	OSC	CAPISTRANO
705	OSC	GRANADA HILLS	773	OSC	GARDENA
706	OSC	RANCHO PALOS VERDES	774	OSC	INGLEWOOD
707	OSC	WESTMINISTER	775	OSC	BEAUMONT
708	OSC	COVINA	776	OLA	PLAYA DEL REY
709	OLA	EL SEGUNDO	777	OSC	LYNWOOD

CALIFORNIA STATE/PACFIN PORT CODE LIST (CONT.)

CAL CODE	PACFIN CODE	NAME	CAL CODE	PACFIN CODE	NAME
710	OSC	HAWAIIAN GARDENS	778	OSC	PARAMOUNT
711	OSC	CARSON	779	OSC	HARBOR CITY
712	OSC	MISSION VIEJO	780	OSC	FULLERTON
721	OSC	ANAHEIM	781	OSC	WALNUT
724	OSC	BELL GARDENS	782	OSC	VICTORVILLE
726	OSC	ORANGE	783	OCC	BISHOP
727	OSC	WHITTIER	784	OSC	SAN BERNARDINO
728	OSC	NORWALK	785	OSC	VERNON
787	OSC	CAMARILLO	865	OSC	SPRING VALLEY
788	OSC	NEWBERRY SPRINGS	867	OSD	LEUCADIA
789	OSC	UPLAND	868	OSD	IMPERIAL BEACH
790	OSC	IRVINE	869	OSD	MISSION BAY
791	OSC	YUCCA VALLEY	873	OSC	SALTON SEA
792	OSC	BLOOMINGTON	874	OSC	PALM CITY
794	OSC	LA CANADA	875	OSC	NILAND
796	OSC	PASADENA	878	OSC	EL CENTRO
799	ONC	LAKE CROWLEY	879	OSC	EL CAJON
801	OSC	THOUSAND OAKS	880	SD	SAN DIEGO
802	OSC	NEWHALL	881	OSD	POINT LOMA
803	OSC	RESEDA	882	OSD	NATIONAL CITY
804	OSC	ONTARIO	883	OCN	OCEANSIDE
805	OSC	CHATSWORTH	884	OSD	CORONADO
852	OSC	POWAY	885	OSD	OCEAN BEACH
853	OSC	EARP	886	OSD	MISSION BEACH
854	OSC	HEMET	888	OSD	LA JOLLA
855	OSC	THERMAL	889	OSD	CHULA VISTA
856	OSC	PALM SPRINGS	890	OSD	DEL MAR
857	OCC	TECOPA	891	OSD	CARLSBAD
858	OSC	PALO VERDE	893	OSD	CARDIFF
859	OSC	VALLEY CENTER	894	OSD	ENCINITAS
860	OSC	SANTEE	895	OSD	SOLANA BEACH
861	OSC	FALLBROOK	897	OSC	VISTA
862	OSC	SAN MARCOS	898	OSC	LA MESA
863	OSC	NORTH SHORE	899	OSC	ESCONDIDO
864	OSC	BONITA	900	SOU	SOUTH OF CALIFORNIA

OREGON STATE/PACFIN PORT CODE LIST

ORE CODE	PACFIN CODE	NAME	ORE CODE	PACFIN CODE	NAME
01	UCR	COLUMBIA RIVER	09	WLD	WALDPORT
02	AST	ASTORIA	10	GSS	GEARHART-SEASIDE
03	COS	COOS BAY	11	CNB	CANNON BEACH
04	NEW	NEWPORT	12	SRV	SALMON RIVER
05	BRK	BROOKINGS	19	TLL	TILLAMOOK BAY
06	DPO	DEPOE BAY	27	BDN	BANDON
07	FLR	FLORENCE	28	WIN	WINCHESTER BAY
08	PCC	PACIFIC CITY	29	NTR	NETARTS BAY
37	GLD	GOLD BEACH	73	MLR	MALHEUR
38	NHL	NEHALEM BAY	74	MRN	MARION
47	SLZ	SILETZ BAY	75	MRW	MORROW
51	BKR	BAKER	76	MNM	MULTNOMAH
52	BTN	BENTON	77	PLK	POLK
53	CLK	CLACKAMAS	78	SHR	SHERMAN
54	CLT	CLATSOP	79	TLC	TILLAMOOK COUNTY
55	CLC	COLUMBIA	80	UMT	UMATILLA
56	CSC	COOS COUNTY	81	UNN	UNION
57	CRK	CROOK	82	WLW	WALLOWA
58	CUR	CURRY	83	WSH	WASHINGTON
59	DES	DESCHUTES	84	WLR	WHEELER
60	DGS	DOUGLAS	85	YML	YAMHILL
61	GLM	GILLIAM	86	TIM	TIMOTHY LAKE (CLACK. CO.)
62	GRT	GRANT	87	BTE	RD. BUTTE RES.
63	HNY	HARNEY			(DESCHUTES CO.)
64	HDR	HOOD RIVER	90	UCR	COL. R. NO ZONE
65	JKS	JACKSON	91	CBB	COL. R. ZONE 1
66	JEF	JEFFERSON	92	CBB	COL. R. ZONE 2
67	JOS	JOSEPHINE	93	CBB	COL. R. ZONE 3
68	KLM	KLAMATH	94	CBB	COL. R. ZONE 4
69	LAK	LAKE	95	CBB	COL. R. ZONE 5
70	LAN	LANE	96	CAB	COL. R. ZONE 6
71	LCN	LINCOLN	97	CYG	COL. R. ZONE 7
72	LIN	LINN		ORF	PORT ORFORD
				OOR	OTHER OR UNKNOWN ORE PORT

NOTE: Port code 50 denotes county. Ports 3 and 56 assigned different PACFIN codes to distinguish Coos Bay from Coos County. Likewise 19 and 79 represent Tillamook Bay and Tillamook County respectively.

WASHINGTON STATE/PACFIN PORT CODE LIST

WAS CODE	PACFIN CODE	NAME	WAS CODE	PACFIN CODE	NAME
105	ANA	ANACORTES	135	FRI	FRIDAY HARBOR
110	BLL	BELLINGHAM BAY	140	LAC	LACONNER
115	BLN	BLAINE	143	ONP	WHIDBEY ISLAND
125	ONP	COUPEVILLE	150	NEA	NEAH BAY
126	ONP	DEER HARBOR	155	OLY	OLYMPIA
130	EVR	EVERETT	156	ONP	POINT ROBERTS
160	PAG	PORT ANGELES	280	OWC	QUEETS
165	TNS	PORT TOWNSEND	285	OWC	QUILLAYUTE
168	OSP	QUILCENE	295	WPT	WESTPORT
169	OSP	POULSBO	310	WLB	BAY CENTER
170	SEA	SEATTLE	315	OWC	GRAYLAND BEACH
175	SEQ	SEQUIM	320	OWC	LONG BEACH
180	SHL	SHELTON	330	WLB	NAHCOTTA
181	OSP	BRINNON	340	WLB	NASELLE
185	ONP	STANWOOD	345	WLB	RAYMOND
190	TAC	TACOMA	350	WLB	SOUTH BEND
195	ONP	WEST BEACH	360	WLB	TOKELAND
210	GRH	ABERDEEN	409	LWC	CHINOOK
220	GRH	BAY CITY	421	LWC	ILWACO
230	CPL	COPALIS BEACH	422	OCR	KALAMA
235	OWC	GRAYLAND	423	OCR	KELSO
240	GRH	HOQUIAM	424	OCR	LONGVIEW
245	OWC	HOH	438	OCR	VANCOUVER
250	OWC	KALALOCH	440	OCR	WASHOUGAL
260	LAP	LAPUSH		OWA	OTHER WASHINGTON PORT
270	OWC	MOCLIPS		WUK	UNKNOWN WAS PORT
				MX	MEXICO

COAST GUARD PORT CODES

COAST GUARD CODE	NAME	COAST GUARD CODE	NAME
ABEW	ABERDEEN, WASH	HOUT	HOUSTON, TEXAS
ALBN	ALBANY, N.Y.	JACF	JACKSONVILLE, FLA
APAF	APALACHICOLA, FLA	JONM	JONESPORT, MAINE
ASTO	ASTORIA, ORE	JUNA	JUNEAU, ALASKA
BALM	BALTIMORE, MD	KETA	KETCHIKAN, ALASKA
BANM	BANGOR, MAINE	KEWF	KEY WEST, FLA
BAHM	BAR HARBOR, MAINE	LACL	LAKE CHARLES, LA
BATM	BATH, MAINE	LOAC	LOS ANGELES-LONG BCH, CA
BAGL	BATON ROUGE, LA (GULF)	LOUK	LOUISVILLE, KY
BARL	BATON ROUGE, LA (RIVERS)	MEMT	MEMPHIS, TENN
BEMN	BEAUFORT-MOREHEAD CITY, N.C.	MIAF	MIAMI, FL
		MILW	MILWAUKEE, WIS (LAKES)
BELM	BELFAST, MAINE	MIRW	MILWAUKEE, WIS (RIVERS)
BELW	BELLINGHAM, WASH	MINM	MINNEAPOLIS, MINN
BILM	BILOXI, MISS	MOGA	MOBILE, ALA (GULF)
BOSM	BOSTON, MASS	MORA	MOBILE, ALA (RIVERS)
BRIC	BRIDGEPORT, CONN	MOCL	MORGAN CITY, LA
BROT	BROWNSVILLE, TEXAS	MUSM	MUSKEGON, MICH
BRUG	BRUNSWICK, GA	NAST	NASHVILLE, TENN
BUFN	BUFFALO, N.Y.	NEBM	NEW BEDFORD, MASS
CALM	CALAIS, MAINE	NEHC	NEW HAVEN, CONN
CAMM	CAMBRIDGE, MD	NELC	NEW LONDON, CONN
CACV	CAPE CHARLES, VA	NEGL	NEW ORLEANS, LA (GULF)
CAVN	CAPE VINCENT, N.Y.	NERL	NEW ORLEANS, LA (RIVERS)
CHAS	CHARLESTON, S.C.	NEWR	NEWPORT, R.I.
CHAV	CHARLOTTE AMALIE, V.I.	NEYN	NEW YORK, N.Y.
CHLI	CHICAGO, ILL (LAKES)	NORV	NORFOLK, VA
CHRI	CHICAGO, ILL (RIVERS)	OGDN	OGDENSBURG, N.Y.
CINO	CINCINNATI, OHIO	OSWN	OSWEGO, N.Y.
CLEO	CLEVELAND, OHIO	PENF	PENSACOLA, FLA
COBO	COOS BAY, ORE	PEAN	PERTH AMBOY, N.J.
COCT	CORPUS CHRISTI, TEXAS	PHIP	PHILADELPHIA, PA
CRIM	CRISFIELD, MD	PITP	PITTSBURGH, PA
DETM	DETROIT, MICH	PLYM	PLYMOUTH, MASS
DULM	DULUTH, MINN (LAKES)	POAT	PORT ARTHUR, TEXAS
DURM	DULUTH, MINN (RIVERS)	POAW	PORT ANGELES, WASH
EASM	EASTPORT, MAINE	POHM	PORT HURON, MICH
ELCN	ELIZABETH CITY, N.C.	POTW	PORT TOWNSEND, WASH
ERIP	ERIE, PA	PORM	PORTLAND, MAINE
EURC	EUREKA, CA	PORO	PORTLAND, ORE
EVAI	EVANSVILLE, IND	PORN	PORTSMOUTH, N.H.
FARM	FALL RIVER, MASS	PROR	PROVIDENCE, R.I.
GALT	GALVESTON, TEXAS	REEV	REEDVILLE, VA
GLOM	GLOUCESTER, MASS	ROHN	ROCHESTER, N.Y.
GREM	GREENVILLE, MASS	ROCM	ROCKLAND, MAINE
GUAM	COMMERCIAL PORT OF GUAM	SLOM	ST. LOUIS, MO
HARC	HARTFORD, CONN	SALM	SALEM, MASS
HONH	HONOLULU, HA	SADC	SAN DIEGO, CA

COAST GUARD PORT CODES, cont.

COAST GUARD CODE	NAME	COAST GUARD CODE	NAME
HOUL	HOUMA, LA	SAFC	SAN FRANCISCO, CA
SAJP	SAN JUAN, P.R.	TOLO	TOLEDO, OHIO
SANO	SANDUSKY, OHIO	WASD	WASHINGTON, D.C.
SAUM	SAULT STE. MARIE, MICH.	WASN	WASHINGTON, N.C.
SAVG	SAVANNAH, GA	WPBF	WEST PALM BEACH, FLA
SEAW	SEATTLE, WASH	WILD	WILMINGTON, DE
SITA	SITKA, ALASKA	WILN	WILMINGTON, N.C.
TACW	TACOMA, WASH	WRAA	WRANGELL, ALASKA
TAMF	TAMPA, FLA		

APPENDIX C

CALIFORNIA STATE/PACFIN GEAR CODE LIST

CAL CODE	PACFIN CODE	NAME	CAL CODE	PACFIN CODE	NAME
0	USP	UNKNOWN	25	FPT	TRAPS SEATTLE TYPE
1	POL	HOOK AND LINE (ROD&REEL)	26	OTH	HOOP NET CRAB RINGS
2	OTH	LIVE BAIT	27	OPT	POTS & TRAPS CRAB LOBSTER
3	HDL	HANDLINE	28	ONT	LIFT NET
4	DRL	DROPLINE	40	DPN	DIP NET SCOOP OR BRAIL
5	LGL	LONGLINE SET AND/OR DRIFT	41	ONT	DIP NET "A" FRAME
6	JIG	JIG	42	OTH	FISH PUMP
7	POL	POLE	50	OTW	TRAWL NETS
8	TRL	TROLL GURDY (HAND)	52	OTW	PARANZELLA
9	TRL	TROLL GURDY (POWER)	54	MDT	MIDWATER TRAWL
10	USP	MISCELLANEOUS	55	OTW	BEAM TRAWL
11	OTH	SPEAR	56	BTT	OTTER TRAWL
12	OTH	HARPOON (PLANK)	57	BTT	BALLOON TRAWL
13	OTH	RAKES, FORKS	58	SHT	OTTER SINGLE-RIGGED
14	OTH	DIVING-ABALONE IRON	59	SHT	OTTER DOUBLE-RIGGED
15	OTH	DIVING-RAKE/HOOK	60	ONT	ENTANGLING NET
		(SEA URCHIN)	61	TML	TRAMMEL NET
16	OTH	CAST NET	65	GLN	GILL NET DRIFT
17	OTH	KELP BARGE SHEARING	66	GLN	GILL NET SET
18	OTH	DIVING HANDCUT	70	ONT	ENCIRCLING NET
		(AGAR GELIDIUM)	71	ONT	PURSE SEINE AND RING NET
19	ODG	DREDGE	72	ONT	RING NET
20	OPT	ENTRAPPING	73	ONT	DRUM PURSE SEINE
21	FPT	TRAPS KOREAN TYPE	74	ONT	LAMPARA BAIT NET
22	OPT	TRAPS FOR SHRIMP	75	ONT	LAMPARA NET
23	OPT	SHRIMP NET CHINESE TYPE	78	SEN	BEACH SEINE OR SURF NET
24	OTH	FYKE NET	80	ONT	NET

OREGON STATE/PACFIN GEAR CODE LIST

ORE CODE	PACFIN CODE	NAME	ORE CODE	PACFIN CODE	NAME
0	DRL	DROPLINE	4	DPN	DIP NET
0	HDL	HANDLINE	5	LGL	LONGLINE SET AND/OR DRIFT
0	USP	UNKNOWN	5	STL	SETLINE
0	ODG	OTHER DREDGE GEAR	6	SEN	SEINE
0	OHL	OTHER HOOK AND LINE	7	POL	POLE
0	OTH	OTHER KNOWN GEAR	8	PWT	PRAWN TRAWL
0	ONT	OTHER NET GEAR	8	SHT	SHRIMP TRAWL
0	CPT	CRAB POT	9	MDT	MIDWATER TRAWL
0	FPT	FISH POT	9	BTT	BOTTOM TRAWL
0	OPT	OTHER POT GEAR	9	FFT	FLATFISH TRAWL
1	GLN	GILL NET SET	9	GFT	GROUNDFISH (OTTER) TRAWL
1	TML	TRAMMEL NET	9	OTW	OTHER TRAWL GEAR
2	TRL	TROLL	9	RLT	ROLLER TRAWL
3	STN	SET NET	9	RVT	RIVER TRAWL
4	JIG	JIG			

WASHINGTON STATE/PACFIN GEAR CODE LIST

WAS CODE	PACFIN CODE	NAME	WAS CODE	PACFIN CODE	NAME
01	ONT	RING NETS	33	SHT	GULF SHRIMP TRAWL
10	OTH	FYKE NETS	40	TRL	INDIAN TROLL
11	DPN	DIP BAG NET	41	TRL	TROLL (SALMON)
12	SEN	DRAG OF BEACH SEINE	42	JIG	HANDLINE OR JIGGER
13	SEN	INDIAN BEACH SEINE	43	STL	SETLINE
14	GLN	GILLNET (SALMON)	51	OTH	INDIAN TRAP
15	ONT	LAMPARA NET	53	OTH	BRUSH WEIR
16	STN	SET NET	61	TRL	TROLL (BOTTOM FISH)
17	STN	INDIAN SET NET	62	OTH	SCUBA
18	SEN	BAIT HERRING PURSE SEINE	63	OTH	CARP GEAR
19	SEN	PURSE SEINE (SALMON)	64	GLN	GILLNET (BOTTOM FISH)
20	ONT	REEF NET	65	OTH	CLAM DREDGE (GEODUCK)
21	CPT	SHELLFISH POT	66	HDL	CHARTER BOAT
23	FPT	BOTTOM FISH POT	67	OTH	INDIAN FISHING GEAR
29	SEN	INDIAN PURSE SEINE	69	SEN	PURSE SEINE (BOTTOM FISH)
31	OTW	BEAM TRAWL	71	OTH	CLAM DIGGER
32	GFT	OTTER TRAWL	75	OTH	CLAM DREDGE HARDSHELL

Other codes have been added to the gear code list since its inception. They are:

DST	double shrimp trawl
FRM	farm
SCD	scallop dredge
SST	single shrimp trawl

APPENDIX D

FORMAT OF 1981 MONTHLY MISSING PRICES RECORDS

Data Element	Name	Columns	Format	Description
1	Month	1- 2	I2	Month of year of landing
2	Species	3- 6	A4	See Market Category List*
3	Price	7-10	F4.3	Average price per pound as reported in this state for this month
4	Grade	12	A1	Applicable only for species CHNK, COHO, and SABL U=Unspecified X=Extra Small S=Small M=Medium L=Large

FORMAT OF 1981 YEARLY MISSING PRICES RECORDS

Data Element	Name	Columns	Format	Description
1	Species	1- 4	A4	See Market Category List*
2	Price	5- 8	F4.3	See above
3	Grade	10	A1	See above

* Appendix A

1981 VESSEL REGISTRATION FILE FORMAT

Data Element	Name	Columns	Format	Description
1	Vessel ID Type	1	I1	1=United States Coast Guard (USCG) 2=State Marine Board 3=none
2	ID Number	2- 9	A8	
3	CAL Plate No.	10-17	A8	If available; Right-justified
4	WAS Plate No.	18-25	A8	If available; Right-justified
5	Length Type	26	I1	1=Overall length in feet 2=Keel length in feet 3=USCG 4=Average of states' reported lengths
6	Length	27-29	I3	
7	Weight Type	30	I1	1=Net tonnage 2=Gross tonnage 3=USCG reported (gross) 4=Average of states' reported weights
8	Weight	31-34	I4	
9	Horsepower Type	35	I1	1=State/owner reported 2=USCG 3=Average of states' reported horsepowers
10	Horsepower	36-39	I4	
11	Registration	40	I1	1=California only 2=Oregon only 3=Washington only 4=California, Oregon and Washington 5=California and Oregon 6=California and Washington 7=Oregon and Washington
12	Year Built	41-43	A3	If available
13	Service	44-46	A3	See Table 5
14	Vessel Name	47-66	A20	If available